N96095.AR.000785
NWIRP CALVERTON
5090.3a

DATA SUMMARY REPORT FOR 2010 GROUNDWATER INVESTIGATION ACTIVITIES SITES 2, 6A AND 10B NWIRP CALVERTON NY

1/25/2011

TETRA TECH

Data Summary Report
for
2010 Groundwater Investigation Activities
at
Site 2 – Fire Training Area
Site 6A – Fuel Calibration Area
Site 10B – Engine Test House and Southern Area

Naval Weapons Industrial Reserve Plant
Calverton, New York

Naval Facilities Engineering Command
Mid-Atlantic

CONTRACT NUMBER N62472-03-D-0057
Contract Task Order 160

January 2011

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DATA SUMMARY REPORT
FOR
2010 GROUNDWATER INVESTIGATION ACTIVITIES
AT
SITE 2 – FIRE TRAINING AREA
SITE 6A – FUEL CALIBRATION AREA
SITE 10B – ENGINE TEST HOUSE, AND
SOUTHERN AREA

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
CALVERTON, NEW YORK

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In Support Of:

N62472-03-D-0057
Contract Task Order 160

January 2011

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ACRONYMS

AS/SVE	Air sparging/soil vapor extraction
bgs	below ground surface
BTEX	benzene, toluene, ethyl benzene, and xylene
CE	chloroethane
CLEAN	Comprehensive Long-Term Environmental Action Navy
COC	Chain of custody
CN	cyanide
CTO	Contract Task Order
CY	cubic yards
DCA	1,1-dichloroethane
DCE	1,1-dichloroethene
DHB	Dehalobacter
DHC	Dehalococcoides
DPT	Direct-push technology
DRO	Diesel range organics
EE/CA	Engineering evaluation/cost analysis
ft/day	feet per day
GAC	Granular Activated Carbon
GOCO	Government-owned contractor-operated
GRO	Gasoline range organics
HNUS	Halliburton NUS
IDW	Investigation-derived waste
IR	Installation Restoration
MCL	Maximum Contaminant Level
MEE	methane, ethane, and ethene
mg/kg	milligrams per kilogram
MPC	Marine pollution control
msl	mean sea level
MS/MSD	matrix spike/matrix spike duplicate
NAVFAC	Naval Facilities Engineering Command Mid-Atlantic
NGC	Northrop Grumman Corporation
NWIRP	Naval Weapons Industrial Reserve Plant
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health

ACRONYMS (Continued)

ORC	Oxygen Release Compound
PAH	Poly-nuclear aromatic hydrocarbons
PCB	Polychlorinated biphenyl
PID	Photoionization detector
ppm	parts per million
PRSC	Peconic River Sportsmen Club
PVC	Polyvinyl chloride
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SCDHS	Suffolk County Department of Health Services
SVOC	Semi-volatile organic compound
TAGM	Technical and Administrative Guidance Memorandum
TAL	Target analyte list
TCA	1,1,1-trichloroethane
TCL	Target Compound List
TIC	Temporary identified compound
TPH	Total petroleum hydrocarbons
Tetra Tech	Tetra Tech NUS, Inc.
USDOI	United States Department of Interior
USEPA	United States Environmental Protection Agency
UST	Underground storage tank
VOC	Volatile organic compound
µg/L	microgram per liter
µg/kg	microgram per kilogram

1.0 INTRODUCTION

This Data Summary Report has been prepared for the Mid-Atlantic Division of the Naval Facilities Engineering Command (NAVFAC) under Contract Task Order (CTO) 160 issued by the Mid-Atlantic Division of NAVFAC under the Comprehensive Long-Term Environmental Action Navy (CLEAN) III contract number N62472-03-D-0057. The Data Summary Report presents the groundwater investigation activities conducted from December 2009 through November 2010 at the Naval Weapons Industrial Reserve Plant (NWIRP) located in Calverton, New York (Figures 1-1 and 1-2). The 2010 investigation activities consisted of the following: temporary well installation, monitoring well installation, groundwater, surface water, and sediment sampling at Installation Restoration Sites 2, 6A, 10B and the Southern Area, as presented in the Work Plan and subsequent Work Plan Addendums (Tetra Tech NUS, Inc. [Tetra Tech], 2008a). Groundwater investigation activities were conducted in accordance with the Navy Installation Restoration (IR) Program and New York State Department of Environmental Conservation (NYSDEC), Resource Conservation and Recovery Act (RCRA) permit number NYD003995198.

1.1 SCOPE AND OBJECTIVES

This document details the 2010 groundwater investigation activities conducted at the NWIRP Calverton Site 2 – Former Fire Training Area, Site 6A – Fuel Calibration Area, Site 10B – Engine Test House, and Southern Area. The primary objective of the investigation was to conduct groundwater monitoring at the Sites and perform additional investigative activities in the Southern Area to address data gaps, supplement the groundwater monitoring network, and further develop the conceptual site model for the Southern Area groundwater plume.

Groundwater monitoring activities detailed in this document are a continuation of the current groundwater monitoring program at these sites, as presented in the Work Plan and subsequent Work Plan addendums (Tetra Tech, 2008a). A removal action at Site 2 was conducted in 2008 and 2009. In addition, remedial actions at Sites 6A and 10B were conducted in 2009 and 2010 to address contaminated soils and eliminate a continuing source of groundwater contamination at these sites. The objectives of groundwater monitoring activities are 1) to monitor the groundwater quality at the sites, 2) evaluate natural attenuation of site contaminants, 3) provide data to evaluate potential impacts of contaminated groundwater on downgradient receptors, and 4) further delineate the extent of VOC-contaminated groundwater in the Southern Area.

The results from the groundwater monitoring program will be used to evaluate the need for future corrective action and to further refine the conceptual site model for Southern Area groundwater and potential impact on the Peconic River.

A detailed description of field activities is presented in Section 3.0 of this report. Field work conducted in 2010 is summarized as follows.

- Annual groundwater sampling at Site 2
- Annual groundwater sampling at Site 6A,10B, and the Southern Area
- Monitoring well and piezometer installation in the onsite and offsite portions of the Southern Area
- Temporary monitoring well installation and groundwater sampling in the Southern Area (sampling events conducted in March, April, June, and September 2010)
- Semi-annual surface water and sediment sampling in the Peconic River
- Quarterly water monitoring at the Peconic River Sportsman's Club (PRSC)

1.2 REPORT ORGANIZATION

This Data Summary Report provides general program implementation information and the approach used in conducting the groundwater investigation activities in 2010. The plan consists of five sections. Section 1.0 provides an introduction. Section 2.0 provides the facility background and environmental setting. Section 3.0 provides a summary of the field activities. Section 4.0 presents the analytical results, and Section 5.0 presents the conclusion and recommendations.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

2.1.1 Site Location and Layout

The Navy's Calverton facility is located in Suffolk County on Long Island, approximately 70 miles east of New York City (Figures 1-1 and 1-2). Formerly engaged in the manufacture of aircraft parts and subassemblies, the property known as NWIRP Calverton, New York was a Government-Owned Contractor-Operated (GOCO) installation leased by the Navy to the Northrop Grumman Corporation (NGC) until 1996. Since that time, all the property contained within the perimeter fence, with the exception of three noncontiguous parcels of land totaling approximately 209 acres that are being retained by the Navy to continue IR program activities (Sites 2, Site 7, and Site 6A/Site 10B/Southern Area), have been conveyed to the Town of Riverhead (Figure 1-2).

Other than environmental investigation and cleanup work, there are no operations conducted on the Navy's 209 acres that generate hazardous waste.

Site 2-Former Fire Training Area

Site 2- Fire Training Area is located on the eastern side of a 9-acre clearing in the south central area of the NWIRP Calverton facility (see Figure 2-1). A circular, concrete pit built in 1983, in the southeast corner of the clearing was used to contain liquids for the fire training exercises. The pit was approximately 80 feet in diameter and was located about 500 feet north and 800 feet west of the facility south gate. During the 2008 removal action, the pit was removed. A 1,000-gallon, steel, above-ground, fuel storage tank, located approximately 75 feet north of the training pit was used to store fuels. This tank was removed in 1996. A 6,000 gallon fuel storage tank was located north of the training area prior to 1982. Little information is available on the 6,000-gallon storage tank, other than it was likely an aboveground tank located north of the concrete pit and is no longer present at this site (Tetra Tech, 2005a).

Site 6A-Fuel Calibration Area

Site 6A is located in Parcel B1 near the south-central portion of the former NWIRP Calverton facility, approximately 2,000 feet north of River Road and 1,500 feet west of the southern gate. Site 6A and related facilities were used in the testing of aircraft fuel and engine systems, which may have resulted in frequent, small fuel spills onto the area's pavement. Minor maintenance and repairs to the fuel and

engine systems were also conducted at the site, and solvents were used during these activities and were likely spilled during their use.

Site 6A consists of new and old fuel calibration pads (Figure 2-1). The old fuel calibration pad was located in what is now an open, grass-covered field in an area now partially covered by a wastewater treatment facility. No physical evidence exists of the old calibration area. The new fuel calibration pad is located north and east of the old calibration pad on a concrete apron. The concrete apron between the two fuel calibration pads was also used for the same activities. A shed, piping and fuel-filtering devices were located in the area in the 1980s. The equipment was likely removed in the 1980's (Tetra Tech, 2007a).

Former underground storage tanks (USTs) located near the old fuel calibration pad (south of Building 231), were removed in the early 1990s by Northrop Grumman.

Site 10B – Engine Test House

Site 10B is located approximately 1,000 feet south of Site 6A in Parcel B1. The area consisted of a building and surrounding pad. The building and a portion of the pad was removed during the 2009/2010 remedial action. To the north, east and south are sparse woods and to the west are open grassy areas. A drainage swale and culvert from Site 6A runs adjacent to and hydraulically up gradient of Site 10B. Groundwater from Site 6A can enter this swale and flow past Site 10B. Also, from the late 1980s to the early 1990s, groundwater from Site 6A was discharged into this drainage swale and culvert (Tetra Tech, 2007a).

Fuel-type contamination was found in the area of a former UST that was removed in the mid-1990s. Approximately 80 cubic yards (CY) of fuel-contaminated soil were excavated during removal of the UST. The excavation did not continue under the concrete pad at Site 10B.

Southern Area

The Southern Area is located southeast of Site 10B and extends to the Peconic River. This area was originally investigated because chlorinated solvents were detected in a Suffolk County monitoring well down gradient of the facility. There are no known or suspected contaminant sources within this area. However, the area is hydraulically down gradient of Site 6A, Site 10B, and the NWIRP general industrial complex. The groundwater flow direction through this area is southeast toward the Peconic River. The Peconic River is the likely end point for groundwater flow from this area.

The area is mostly wooded and includes two shallow ponds near the northern edge. The ponds receive runoff through a drainage swale and culvert from Site 6A. From the late 1980s to the early 1990s, groundwater from Site 6A was discharged into this drainage swale and culvert and into the western pond. As a result, the presence of chlorinated solvents in groundwater at the Southern Area may be attributable to Site 6A (Tetra Tech, 2007a).

The PRSC is located in the Southern Area. Water supply wells on the PRSC are classified as a Non-Community Public Water Supply under Part 5 Sub Part 5-1 of the New York State Sanitary Code.

2.1.2 Environmental Investigation History

Site 2-Former Fire Training Area

In 1982 and 1983, two spills of waste oil were reported at the Fire Rescue Training Area. As a result of the 1982 spill, the entire Fire Rescue Training Area was upgraded. Concrete berms were installed to contain the oil and water used in the training exercises. Piping in the area was modified to prevent spills (NEESA, 1986).

Marine Pollution Control (MPC) of Calverton, New York removed 327 CY of contaminated soil in 1982 because of the spill that occurred in August 1982 from the 6,000-gallon storage tank. In addition, four groundwater monitoring wells were installed in the spill area. Following the second spill of approximately 300 gallons in 1983, seven additional monitoring wells were installed by MPC to monitor potential contamination resulting from the spills (Tetra Tech, 2005a).

A groundwater recovery well and oil-water separation system was installed at the Fire Training Area in December 1987. The system used a pumping well, an oil recovery well, and an oil/water separation tank (Halliburton [HNUS], 1992). This system consisted both of an active and a passive free product recovery system. The active recovery system included a groundwater pumping well, an oil recovery well, and an oil/water separator tank. The passive recovery system consisted of hydrophobic filters located in shallow wells. The active recovery system was shut down in 1993. Passive free product recovery continued until 1996. By December 1996, approximately 325 gallons of petroleum product had been removed from this site (Tetra Tech, 2005a).

In 1987, sampling activities at the Fire Training Area consisted of collecting 15 soil samples at five soil boring locations, six groundwater samples, and free product samples due to its presence in two of the monitoring wells. Each of the samples was analyzed for Target Compound List (TCL) volatile VOCs,

semi volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, cyanide (CN), polychlorinated biphenyls (PCBs), and pesticides.

Results of the soil boring samples indicated significant contamination by VOCs, SVOCs, PCBs, and pesticides. Contamination by inorganic parameters was limited. Volatile and semi volatile organic tentatively identified compounds (TICs) were identified in all soil-boring samples

Groundwater monitoring results from the six monitoring wells indicated the presence of significant contamination by VOCs, SVOCs, and inorganic compounds.

The results of the chemical analysis of the free product layer found in two of the monitoring wells indicated that significant concentrations of chlorinated VOCs were present. A limited number of significant TICs were identified.

In 1994 and 1995, a RCRA investigation was conducted (HNUS, 1995). Two rounds of groundwater samples were collected and analyzed for TCL VOCs, SVOCs, pesticide/PCB organic compounds, TAL metals/CN, and hexavalent chromium.

VOCs were detected at relatively high concentrations in Site 2 soil. The fire-training pit was the most likely primary source area. VOCs detected in soil included solvents and fuel-related contaminants. Solvents detected included 2-butanone (5,900 micrograms per kilogram [µg/kg]), chloroethane [CE] (330 µg/kg), dichlorobenzene (900 µg/kg), tetrachloroethene (470 µg/kg), and 1,1,1-trichloroethane [TCA] (9,900 µg/kg). Fuel-related contaminants detected include ethylbenzene (3,700 µg/kg), toluene (6,100 µg/kg), and xylenes (85,000 µg/kg).

Groundwater testing results during the RCRA Facility Investigation (RFI) exhibited VOCs at concentrations above federal Maximum Contaminant Levels (MCLs) or New York groundwater quality standards: CE (1,100 micrograms per liter [µg/L]), 1, 1-dichloroethane (DCA) (1,200 µg/L), toluene (320 µg/L), TCA (140 µg/L), and xylenes (230 µg/L).

A pilot-scale air sparging/soil vapor extraction (AS/SVE) system started operation in 1995 to address the contamination. By June 1997, the maximum detected chlorinated VOC concentration was 78 µg/L (1, 2-dichloroethene) and the maximum detected fuel-related concentration for xylenes was 91 µg/L. The state groundwater standard for most VOCs is 5 µg/L. PCBs (18 µg/L), polynuclear aromatic hydrocarbons (PAHs) (3 µg/L), and lead (30.8 µg/L) were detected at concentrations above federal MCLs or state groundwater quality standards. Phthalates and pesticides were detected at concentrations below these standards in several monitoring well samples. Based on the similarity between chemicals found in Site 2 soil and groundwater, it is likely that soil contaminants have affected groundwater.

By 2000, approximately 80 pounds of target VOCs were removed. In addition, an estimated 30,000 pounds of organics had been destroyed through biodegradation. VOC concentrations in soil and groundwater had been reduced by approximately 70 to 95 percent.

In 1997, a Phase 2 Remedial Investigation (RI) was conducted (Tetra Tech, 2001). Four on-site and four off-site temporary monitoring wells were installed. Groundwater samples were collected from various depths at each location and analyzed for VOCs. In addition, one shallow and one intermediate monitoring well were installed. Two rounds of groundwater samples were collected from the monitoring wells and analyzed for VOCs. The results of the sampling indicated that the nature and extent of groundwater contamination had been defined, and there were no remaining data gaps.

The Navy conducted an Engineering Evaluation/Cost Analysis (EE/CA) in 1998 for several sites at NWIRP Calverton, including Site 2 (Tetra Tech, 1998). The analysis recommended that free product recovery be restarted at Site 2. Groundwater extraction tests were conducted in 1999 in anticipation of a new free product recovery system (vapor-assisted oil skimming). However, based on subsequent field-testing, several interferences were noted that impacted the ability to successfully extract and treat the groundwater. An alternate recommendation was made to recover product using passive techniques (i.e. absorbent pillows).

In May 2005, three surface water samples were collected from water located within the concrete pit. The samples were submitted for laboratory analysis. The purpose of the sampling was to determine if standing water inside the concrete pit could be discharged onsite. Results from the sampling indicated that no contamination was present in the water (Tetra Tech, 2005b).

In 2005, five surface soil locations were sampled and analyzed for total petroleum hydrocarbons (TPH) - diesel range organics (DRO), TPH- gasoline range organics (GRO), PAHs, pesticides, PCBs, and inorganics. There were eleven exceedances of PAHs [benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrenej], one PCB (Aroclor-1248) exceedance, and five exceedances of four metals (beryllium, calcium, manganese, and sodium) compared to screening levels.

In addition, thirty-eight soil borings were advanced during the field investigation. A total of twenty-nine samples were collected from twenty borings from depths ranging from 2 to 16 feet below ground surface (bgs) and submitted for laboratory analysis of VOCs, PAHs, PCBs, pesticides, metals, and TPH -DRO and GRO. Of the twenty-nine soil boring samples, there were 13 screening level exceedances of TPH-DRO. In addition, there were thirteen exceedances of four PAHs [benzo(a)anthracene, benzo(a)pyrene, chrysene, and dibenzo(a,h)anthracene] in seven soil boring samples. There were no Technical and

Administrative Guidance Memorandum (TAGM) 4046 exceedances of VOCs or PCBs in the twenty-nine soil boring samples. Excluding essential nutrients such as calcium, magnesium, potassium, and sodium, there were three exceedances of beryllium (Tetra Tech, 2005b). Most of the samples had detectable concentrations of metals, PAHs, and pesticides, but not at concentrations greater than TAGM 4046.

In January 2008, sixteen monitoring wells were sampled and analyzed for TCL and additional Suffolk County Department of Health Service (SCDHS) VOCs, and methane, ethane, and ethane (MEE). Twenty-one VOCs were detected in ten of the sixteen monitoring wells sampled. Of the ten monitoring wells that contained detectable limits of VOCs, only four contained VOCs at concentrations that exceeded (New York State Department of Health) NYSDOH MCLs. These four wells (monitoring wells FT-MW-02S, FT-PZT1, FT-PZT2, and FT-PZT3) are associated with the Fire Training Ring area, and in particular, an area in which free product had been identified. Ethylbenzene (36 µg/L), toluene (130 µg/L), total xylenes (300 µg/L), DCA (55 µg/L), 1,2-dichlorobenzene (48 µg/L), isopropylbenzene (13 µg/L), and vinyl chloride (20 µg/L) were detected above NYSDOH MCLs in these wells. In addition several other VOCs were also detected above NYSDOH MCLs, however, not consistently. These VOCs consisted of 1,1-dichloroethene (DCE) (9 µg/L), 1,2- dichlorobenzene (14 µg/L), chlorobenzene (5 µg/L), cis-1,2-dichloroethene (5 µg/L), and Chloromethane (13 µg/L). Laboratory results from MEE analysis indicated that only methane was detected in seven wells at a maximum concentration of 9,800 µg/L (Tetra Tech, 2008a).

From October 2008 to June 2009, a removal action was conducted to remove contaminated soil, the AS/SVE system, and the 80-foot concrete circular concrete pad. During the removal action, 10,860 tons of shallow petroleum contaminated soil (excavated to 6 ft bgs) and 546 tons of surficial coal (excavated to 2 ft bgs, northern portion of excavation contained PCBs) were excavated and disposed of offsite. In addition, the AS/SVE system was demolished, which included the abandonment of sixteen air injection wells, thirty-two air extraction wells, and twenty free product monitoring wells, as well as the removal of all piping, electrical lines, fuse boxes, and a moisture separator. Following excavation, 1,100 pounds of calcium oxyhydroxide (Regenesis® ORC [Oxygen Release Compund] Advanced) was applied to the excavation floor. The pit was then backfilled with clean fill, regraded, and vegetated.

In September 2009, thirteen monitoring wells were sampled analyzed for VOCs at Site 2. In addition, monitoring wells FT-MW-02S, 02I, 05S, and 05I were also analyzed for MEE. Fifteen VOCs were detected in four of the thirteen monitoring wells sampled. Of the four monitoring wells that contained detectable concentrations of VOCs, only one monitoring well, FT-MW-02S, contained VOCs (DCA, 1,2-dichlorobenzene, ethylbenzene, isopropylbenzene, and total xylenes) at concentrations equal to or greater than the NYSDOH MCL of 5 µg/L. In addition, methane was detected in FT-MW-02S and FT-MW-05S (Tetra Tech, 2010).

Site 6A - Fuel Calibration Area

Site 6A was investigated during the RFI (HNUS, 1995a), EE/CA for Sites 2, 6A, 7, and 10B (Tetra Tech, 1998), Phase 2 RI and Supplemental Groundwater Investigation (Tetra Tech, 2001), Site 6A and Southern Area Supplemental Investigation (Tetra Tech, 2005), a Site 6A Data Gap Investigation (Tetra Tech, 2006), and a Data Summary Report for Sites 6A, 10B, and Southern Area (Tetra Tech, 2008b). Soil data was collected during the RFI and data gap investigation; groundwater data was collected during all phases of investigation; and free product data was collected during the EE/CA.

The results of the RFI indicated the presence of VOCs at relatively low to moderate concentrations in Site 6A soils. The RFI also revealed that petroleum free product remains at the site and formed a smear zone in the vadose zone soil.

The January 2006 data gap investigation was performed to further define the extent of Site 6A petroleum and PCB contaminated soils. The results of this investigation more accurately defined the extent of Site 6A VOC and petroleum contamination. Additionally, this investigation adequately defined the extent of PCB contaminated soil within the area of VOC and petroleum contaminated soil at Site 6A.

Chlorinated solvents and fuel-type Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) and VOCs have been consistently detected in Site 6A groundwater; however, concentrations have decreased significantly between 1994 and 2005. VOC concentrations in 1994 of TCA (15,000 micrograms per liter [µg/L]), DCA (5,800 µg/L), CE (430 µg/L), toluene (330 µg/L), and xylenes (780 µg/L)] were approximately one to three orders of magnitude greater than concentrations detected in 2005 [TCA (12 µg/L), DCA (29 µg/L), CE (20 µg/L), toluene (3.8 µg/L), and xylenes (17 µg/L)]. Other chlorinated VOCs such as 1,2-dichloroethene (18.4 µg/L), tetrachloroethene (1.8 µg/L), and trichloroethene (4.04 µg/L) were detected in temporary wells sampled during the RFI in 1994; however, they have not been detected in permanent wells subsequently installed and sampled at the site.

Four SVOCs, including 1,2-dichlorobenzene (9 µg/L), 2-methylnaphthalene (74 µg/L), 4-methylphenol (84 µg/L), and naphthalene (120 µg/L), were detected in Site 6A groundwater during the 1995 RFI. The maximum concentrations of these SVOCs exceeded NYSDEC groundwater quality criteria.

VOCs detected in groundwater samples collected in 1997, 2000, and 2005 at concentrations greater than NYSDEC groundwater quality criteria included TCA, DCA, DCE, benzene, CE, ethylbenzene, toluene, and xylenes. VOCs detected in groundwater samples collected in 1997, 2000, and 2005 at concentrations less than NYSDEC groundwater quality criteria include 1,1,2-trichlorotrifluoroethane (Freon 113), 1,2-dichlorobenzene, tetrachloroethene, and trans-1,2-dichloroethene. It should be noted

that 1,2-dichlorobenzene was classified by the United States Environmental Protection Agency (USEPA) as an SVOC during previous sampling activities, but it is now classified as a VOC.

The area of the groundwater contamination in 1997 was approximately 100,000 square feet. The highest concentrations of contamination have typically been detected in the top 10 feet of the aquifer; however, contamination has been detected as deep as 52 feet bgs or approximately 47 feet below the water table. The total thickness of the water table aquifer is approximately 57 feet at Site 6A.

Free product recovery was an ongoing NGC operation at Site 6A until 1996. Approximately 1,900 gallons of petroleum product were recovered by the operation. Monitoring of free product thickness at Site 6A was performed in 1990, 1991, August 1995 through February 1996, November 1997, and March, April, and August 1998.

During the 2006 Data Gap Investigation soil borings were advanced using direct push technology (DPT) to more accurately define the extent of VOC and petroleum-contaminated soils. The soil cuttings were also inspected for the presence of free product. Using the available information, the free product remaining at Site 6A in 2006 was approximately 45,800 pounds, or the equivalent of 6,100 gallons. Based on this estimate, about 31 percent of the free product (1,900 of 6,100 gallons) was removed during previous efforts and approximately 69 percent remained at the site. The remaining free product is mostly adsorbed on site soils in a smear zone and is not directly recoverable as a liquid.

In January 2008, a total of twelve groundwater samples were collected at Site 6A and analyzed for VOCs and SVOCs. SVOCs were not detected in any of the monitoring wells. Eight VOCs were detected in four of the twelve monitoring wells sampled. Of the four monitoring wells that contained detectable concentrations of VOCs, only one well (FC-MW-05S) contained a VOC, CE at 5 µg/L at a concentration equal to the NYSDOH MCL. CE was also detected in FC-MW-02S and FC-MW-07S. DCA (a primary Southern Area VOC) was detected in two wells (FC-MW-02S and FC-MW-05S). Methylcychlohexane, toluene, and xylenes were also detected in FC-MW-02S (Tetra Tech, 2008c).

Since SVOCs were not detected in the previous sampling event, the twelve groundwater samples collected in August at Site 6A were analyzed for VOCs. Similar to the January sampling event, eight VOCs were detected in four of the twelve monitoring wells sampled. Monitoring well (FC-MW-05S) contained CE at 5 µg/L which is equal to NYSDOH MCL. CE was also detected in FC-MW-02S and FC-MW-07S. DCA (a primary Southern Area VOC) was detected in two wells (FC-MW-02S and FC-MW-05S). Methylcychlohexane, toluene, and xylenes were also detected in FC-MW-02S (Tetra Tech, 2008d).

In September 2009, ten monitoring wells were sampled and analyzed for VOCs at Site 6A. In addition, monitoring wells FC-MW-04S, 04I, 05S, and 05I were also analyzed for MEE. VOCs were not detected in the monitoring wells sampled at Site 6A in 2009. FC-MW-02S, 02I, and 03S which were abandoned during excavation activities at Site 6A were not sampled during the 2009 sampling event. Methane was detected in FC-MW-04S and FC-MW-04I.

A remedial action to remove PCB and petroleum contaminated soil took place in 2009 and 2010 at Site 6A. The total excavation volume was 21,000 tons, of which approximately 498 tons were PCB-contaminated, 2,888 tons was solvent/petroleum contaminated, and 17,690 tons was petroleum contaminated. In addition, approximately 5,200 pounds of calcium oxyhydroxide was applied to promote biodegradation of residual contamination. After the excavation was completed, three wells in the excavation area that were abandoned were reinstalled as FC-MW02SR1, FC-MW02IR1, and FC-MW03SR1.

Site 10B - Engine Test House

Site 10B was investigated during the Phase 2 RFI (CF Braun, 1998), EE/CA for Sites 2, 6A, 7, and 10B (Tetra Tech, 1998), a Phase 2 RI and Supplemental Groundwater Investigation (Tetra Tech, 2001), and a Data Summary Report for Sites 6A, 10B, and Southern Area (Tetra Tech, 2008c). Soil data were collected during the RFI, groundwater data were collected during the RI and the Supplemental Groundwater Investigation, and free product data were collected for the EE/CA.

In 1997, 10 soil samples were collected at Site 10B from the soil/groundwater interface and analyzed for TPH-DRO, and GRO. Two samples contained TPH-DRO at concentrations of 7,700 milligrams per kilogram (mg/kg) and 8,500 mg/kg, respectively. NYSDEC does not have a criterion for TPH-DRO; however, these concentrations indicate that there are relatively high amounts of organic (fuel-related) contamination in the soil at these locations and that free product may still be present.

Prior to the 2008 Investigation, Site 10B was last investigated in 1997 by installing and sampling 16 temporary monitoring wells. Fuel-type VOCs were detected at concentrations greater than NYSDEC groundwater quality criteria in four monitoring well samples. The fuel-type chemicals detected included benzene (maximum detection of 1.95 µg/L), ethylbenzene (maximum detection of 1,084 µg/L), toluene (maximum concentration of 337 µg/L), and xylenes (maximum concentration of 196 µg/L). Other temporary monitoring wells at Site 10B did not exhibit evidence of significant fuel-type VOC contamination.

The fuel-type VOC contamination was generally detected within the top 20 feet of the water table aquifer. Fuel-type contamination was also sporadically detected at low concentrations (less than 5 µg/L) at greater depths, but this contamination may be attributable to Site 6A.

Monitoring of free product thickness at Site 10B was performed several times from August 1995 through January 1996, and approximately three more times in March, April, and August 1998. Although TPH concentrations detected in soil samples collected at the soil/groundwater interface suggested that free product may be present, measurable free product was not observed during the 1995/1996 field activity and only a slight sheen was observed in two wells in March 1998. No product was able to be collected for analysis. The remaining free product is mostly adsorbed on site soils in a smear zone and is not directly recoverable as a liquid.

In 2008, two rounds of sampling including three groundwater samples were collected at Site 10B and analyzed for VOCs. TCA at 0.4 µg/L was the only VOC detected (Tetra Tech, 2008c and d).

From December 2008 to July 2009, a remedial action was conducted at Site 10B. Approximately 2,700 CY of soil was excavated to a depth of 8.0 feet bgs at the water table. Confirmation sampling was conducted and found clean side wall samples, except for portions of the southeastern sidewall, where additional excavations took place. After excavation, 1,900 lbs of dry form PermeOX Plus™ was applied to the excavation floor. The excavation area was backfilled with clean fill (AGVIQ/CH2MHill, 2009).

In September 2009, groundwater samples were collected from monitoring wells ET-MW-01S, 02S, and 03S at Site 10B. Groundwater samples were analyzed for VOCs. VOCs were not detected in the three groundwater samples collected in 2009.

Southern Area

Prior to the 2010 groundwater sampling and analysis activities, investigations were conducted in 1997, 2000, 2004/2005, 2006, 2008, and 2009. Groundwater samples were collected from temporary wells, monitoring wells, piezometers, and vertical profile borings during these investigations. Surface water and sediments samples were also collected from the Peconic River during the 2004/2005, 2006, 2008, and 2009 investigations.

The groundwater contamination in the Southern Area consists mainly of chlorinated solvent (TCA) and associated breakdown products DCA, DCE, and CE. The contamination is believed to be associated with Site 6A, since the majority of the other potential sources areas have been excluded. The contamination is believed to have resulted from either intermittent releases at Sites 6A or from potential overland migration through a series of ditches and ponds in the area. The Southern Area includes VOC

contamination in groundwater from Sites 6A to the Peconic River (see Figure 2-1). DCA is the dominant chemical representing approximately 80 percent of the total VOCs present. Other VOCs including benzene, toluene, ethylbenzene, xylene, Freon, and chloroform are periodically identified in the groundwater, but do not appear to form a plume.

1974 to 1993. In 1974, SCDHS installed a groundwater monitoring well in the Southern Area, near River Road. Between 1977 and 1993, TCA was detected in seven of seventeen samples, with the maximum reported concentration of 120 µg/L in October 1980.

1988 to 1992. Northrop Grumman operated a free product recovery system at Site 6A. An investigation of this system in 1992 found chlorinated VOCs in the discharge including TCA at 220 µg/L, DCA at 250 µg/L, and CE at 77 µg/L. The discharge was directed to a series of ditches, culverts, and ponds into the Southern Area.

1992 to 1995. The Site 6A RFI and addendum identified chlorinated solvents in the groundwater at Site 6A. Chlorinated VOCs detected consisted of TCA at 15,000 µg/L, DCA at 5,800 µg/L, and CE at 430 µg/L. The investigation did not find evidence that the plume at Site 6A had migrated beyond the immediate vicinity of Site 6A, (HNUS, 1995a, HNUS 1995b, and Tetra Tech 2001).

1997 to 2001. Navy conducted a series of groundwater investigations in the Southern Area. The investigation included sampling and analysis of groundwater in the Southern Area via temporary monitoring wells and a flow net study was conducted for the Peconic River (Tetra Tech, 2001).

- In 1997, nine vertical profile borings were installed in onsite and offsite portions of the Southern Area. Samples were collected at depths up to 80 feet bgs. Sample locations were north of River Road/Grumman Boulevard and along Connecticut Avenue. DCA was detected at a maximum concentration of 31 µg/L north of River Road, near the location of SA-MW-127. Contamination in this area is limited to less than 60 feet bgs.
- In 2000, four vertical profile borings were installed on Connecticut Avenue, River Road (southern extension), and PRSC property. DCA was detected at a maximum concentration of 130 µg/L on PRSC property at a depth of 95 feet bgs.
- In 2000, a flow net study was conducted for the Peconic River to a depth of 80 feet bgs. The study concluded that groundwater to a depth of 80 feet flowed into the Peconic River. In addition, DCA was detected at a maximum concentration of 220 µg/L near the intersection of Connecticut Avenue and River Road.

2005: Navy conducted additional investigations in the Southern Area. The investigations included sampling and analysis of groundwater in the Southern Area via temporary monitoring wells and piezometers, a flow net study for the Peconic River, and the collection of surface water samples (Tetra Tech, 2005).

- Comparison of temporary monitoring well sample results with piezometer/monitoring well results determined that in some locations with an aquitard, a vertical gradient could result in the false positive detections of VOCs at depth.
- DCA was detected at a concentration of 292 µg/L at a depth of 92 feet bgs in a vertical profile boring on the PRSC property and 125 µg/L in a piezometer (monitoring well) on Connecticut Avenue. Piezometers (monitoring wells) constructed near the Peconic River did not detect VOCs.
- Based on groundwater flow direction, the Navy attempted to install piezometers (monitoring wells) near the Peconic River, but downstream of Connecticut Avenue. Access was determined not to be feasible for a drilling rig.
- Surface water samples did not detect VOCs.
- Flow net study determined that groundwater to a depth of 130 feet bgs flowed into the River.

2005/2006: Navy prepared a Corrective Measures Study to address VOC contaminated groundwater. In addition, piezometers were installed near the Peconic River in areas of suspected discharge; DCA was detected at 38 µg/L in one of the piezometers. Surface water and sediment samples were collected in the Peconic River and DCA was detected in one sample at a concentration of 0.5 µg/L in one of the four samples (Tetra Tech, 2006).

2007/2008: Navy installed permanent monitoring wells along River Road/Grumman Boulevard and Connecticut Avenue. The monitoring wells allowed groundwater flow directions to be determined, and supported the evaluation of contaminant migration. In addition, the Navy began quarterly sampling and analysis of groundwater wells on the PRSC (Tetra Tech, 2008c). Two rounds of groundwater, surface water, and sediment samples were collected in the Southern Area.

- DCA was detected at a maximum concentration of 470 µg/L in permanent monitoring wells located near the intersection of River Road and Grumman Boulevard.
- DCA was detected at a maximum concentration of 17 µg/L in a monitoring well located near the Peconic River. DCA was not previously detected in this well.
- DCA concentrations in a permanent monitoring well located on Connecticut Avenue decreased by approximately 50 percent between 2005 (125 µg/L) and 2008 (63 µg/L). DCA concentrations in a piezometer located just north of the Peconic River decreased by approximately 90 percent between 2006 (38 µg/L) and 2008 (4 µg/L).

- Site-related VOCs were not detected in four surface water and four sediment samples collected in the Peconic River.
- DCA was detected at a maximum concentration of 13 µg/L in one of four groundwater (potable water supply) wells located on PRSC. This well is treated with liquid phase granular activated carbon (GAC) and the treated effluent is below MCLs.

2009: A total of thirty groundwater samples were collected from permanent monitoring wells and a total of fifty-one groundwater samples were collected from seventeen temporary well locations. Groundwater samples were analyzed for VOCs and some of the monitoring wells were also analyzed for MEE. A total of eight surface water samples and eight sediment samples were collected in the Peconic River during the two rounds of sampling.

- Detections of TCA were found in six of the temporary wells and two of the permanent monitoring wells, with a maximum concentration of 280 µg/L.
- Detections of DCA were found in thirteen temporary wells and twelve of the permanent monitoring wells, with a maximum concentration of 1,200 µg/L.
- Detections of DCE were observed in six temporary wells and six permanent monitoring wells, with a maximum concentration of 55 µg/L.
- Detections of CE were observed in three temporary wells and one permanent monitoring well, with a maximum concentration of 91 µg/L.
- Ethane was detected in one monitoring well at 0.2 µg/L.
- Peconic River surface water samples did not have any detections while the sediment samples had only one detection of DCA with a concentration of 7.5 µg/kg. This detection was found in the March 2009 sampling event, but was not duplicated during the September 2009 event. DCA was detected at one of the two river piezometers in both the March and September event, of 4 µg/L and 17 µg/L respectively.
- DCE was detected at one of the two river piezometers at a concentration of 1.7 µg/L during the September event, but not in March.

2.2 ENVIRONMENTAL SETTING

2.2.1 Topography and Drainage

NWIRP Calverton is located in an area underlain by permeable glacial material and characterized by limited surface water drainage features. Normal precipitation at the facility is expected to infiltrate rapidly into the soil. Wetland areas and glacially formed lakes and ponds are located south and southwest of the facility. NWIRP Calverton occupies a relatively flat, intermorainal area. The topographic relief at NWIRP

Calverton is 54 feet and elevations range from 30 to 84 feet above mean sea level (msl) (Tetra Tech, 2005).

2.2.2 Geology and Soils

NWIRP Calverton lies within the Atlantic Coastal Plain Physiographic Province. Generally, this region can be characterized as an area of relatively undissected low-lying plains. The Atlantic Coastal Plain is underlain by a thick sequence of unconsolidated deposits. The surface topography has been created or modified by Pleistocene glaciation (Isbister, 1966). The facility is underlain by approximately 1,300 feet of unconsolidated sediments that consist of four distinct geologic units. These units, in descending order, are the Upper Glacial Formation, the Magothy Formation, the Raritan Clay Member of the Raritan Formation, and the Lloyd Sand Member of the Raritan Formation (McClymonds and Franke, 1972).

Soil boring and sampling activities previously completed at NWIRP Calverton reveal that the sites are predominantly underlain by fine to coarse sediments of probable glacial fluvial origin. Three distinct lithofacies were encountered during previous field investigations. The upper lithofacies represent a mixture of soil, fill, and glacial deposits and consist predominantly of silty, fine-grained sand with varying amounts of peat and clay. Fill material, where present, is always associated with the upper lithofacies. The middle lithofacies consist of predominantly fine-grained sand with varying amounts of medium- to coarse-grained sand and pebbles, and are probably representative of undisturbed glacial deposits. The lower lithofacies consist of micaceous, silty clay and may represent the Magothy Formation.

Based on soil borings from 2010 an updated geologic cross section was generated. The plan view map with cross-section A-A' is presented as Figure 2-2. Cross section A-A' (Figure 2-3) starts at Site 6A-Fuel Calibration Area and runs to the southeast through Site 10B-Engine Test House, onsite Southern Area, offsite Southern Area, and the PRSC then proceeds to the south through the Peconic River. The cross section was drawn using data from boring logs (temporary and permanent monitoring wells) and geophysical logs (gamma logs). Emphasis was placed on the geophysical logs (where available) for lithologic contacts with verification of the contact information and lithologic descriptions based on the boring logs. As seen in Figure 2-3 most of the geological data was available in focused study areas of the groundwater plume.

Based on cross section A-A' (Figure 2-3), there is a fine to medium-grained sand down to approximately 50 feet bgs where a silty clay unit (aquitard) is encountered. This aquitard is about 25 feet thick at Site 6A and thins to the southeast, eventually pinching out between SA-PZ-145 and SA-MW-131. Beneath this silty clay unit is a thin silty fine to medium-grained sand with trace gravel followed by another thin silty clay unit that appears to be discontinuous across the area. Another fine to medium-grained sand is then encountered at depth and extends down to a deeper silty clay unit, which is interpreted to be continuous

across the study area. Boring and gamma logs from the southeastern portion of the offsite Southern Area (SA-PZ-123 and SA-PZ-118) show that there is 100 feet of fine to medium-grained sand overlying a 10-foot thick silty clay layer.

The geologic units encountered within the study area appear to be generally flat, consistent with what would be expected for the glacial deposits on Long Island. The upper contact is believed to be an erosional surface and is expected to be flat to undulating, reflecting the former topography.

2.2.3 Surface Water and Hydrogeology

The majority of the facility; all of Sites 6A and 10B and the Southern Area are located within the Peconic River drainage basin. The north eastward-flowing Peconic River is located approximately 1,300 feet south of the facility at its closest point. The Peconic River discharges to Peconic Bay located 8.5 stream miles from the facility. Major surface water features near the facility include McKay Lake and Northeast Pond. McKay Lake is a man-made groundwater recharge basin located north of River Road, midway along the southern site border. Northeast Pond is located at the northeast corner of the facility. Several small drainage basins exist near Site 6A (Runway Ponds). All of these surface water features are land locked, with the exception of McKay Lake, which has an intermittent discharge to Swan Pond, located 1,500 feet to the south of NWIRP Calverton. Overhead flow from the drainage basins to the Peconic River may also occur periodically.

A number of small wetlands exist on the Calverton facility. The U.S. Department of the Interior (USDOI), Fish and Wildlife Department classifies the western half of the 2-acre Northeast Pond as palustrine, forested/scrub/shrub/emergent wetland. The drainage basins are classified as palustrine, scrub/shrub/emergent wetland (USDOI, 1980).

The unconsolidated sediments that underlie NWIRP Calverton are generally coarse-grained with high porosities and permeabilities. These factors create aquifers with high yields and transmissivities. The Upper Glacial Formation, the Magothy Formation, and the Lloyd Sand are the major regional aquifers. The Upper Glacial and Magothy aquifers are of principle importance in Suffolk County because of their proximity to the ground surface. The Raritan Clay of the Raritan Formation has a very low permeability and acts as a regional confining layer that is believed to minimize the local risk of contamination to the underlying Lloyd Sand aquifer (McClymonds and Franke, 1972). The Lloyd Sand has not been extensively developed due to its depth and the abundant water available in the overlying aquifers. The Upper Glacial aquifer is widely used as a source of groundwater in Suffolk County. The water table beneath the NWIRP Calverton lies within this aquifer. Porosities in excess of 30 percent have been calculated for the Upper Glacial aquifer in adjoining Nassau County. Hydraulic conductivity is estimated at 270 feet per day (ft/day).

The Magothy aquifer is widely used as a source of groundwater in Suffolk County. The most productive units are coarser sand and gravel. The permeability of the Magothy is high and hydraulic conductivity has been calculated in excess of 70 ft/day.

The Upper Glacial and Magothy aquifers are believed to be hydraulically interconnected and to function as a single unconfined aquifer. Logs from on-site monitoring wells, previous hydrogeologic investigations, and geologic mapping indicate that although clay lenses that may create locally confining and/or perched conditions are present in both aquifers, these lenses are not widespread and do not function as regional aquitards (McClymonds and Franke, 1972; Fetter, 1976).

2.2.4 Groundwater Occurrence

Groundwater is encountered under unconfined conditions at shallow depths beneath NWIRP Calverton within the glacial deposits that form the uppermost hydrogeologic unit in the area. This shallow aquifer, commonly referred to as the upper glacial aquifer, extends to depths of approximately 14 to 150 feet bgs in the study area and is the aquifer of most concern in regards to groundwater quality issues related to the facility. The upper glacial aquifer is comprised primarily of highly permeable glacial outwash deposits, with till (unsorted mixtures of sand, silt, clay, and gravel) and glaciolacustirne clayey deposits. Geologic units observed at NWIRP Calverton are relatively flat with alternating units of sands and silts/clays.

At Site 6A - Fuel Calibration Area, groundwater monitoring wells screened within the upper glacial aquifer include the shallow and intermediate wells (designated with S and I, respectively). The shallow and intermediate wells are described as being located in the Upper Hydrogeologic Regime. In the Southern Area, groundwater monitoring wells screened within the upper glacial aquifer include the shallow and intermediate piezometers and monitoring wells (designated with S and I, respectively) and some of the deep wells and piezometers (designated D). These shallower wells are described as being in the Upper Hydrogeologic Regime.

The Upper Hydrogeologic Regime interacts directly with the Peconic River. Underlying the upper glacial aquifer is the Magothy aquifer that starts at approximately 140 to 150 feet bgs. This aquifer, comprised primarily of clayey fine to medium sand with minor silty clay horizons directly underlying the laterally extensive silty clay unit, is projected to be about 650 feet thick in north-central Suffolk County (including the NWIRP Calverton area), and is used regionally as a major source for water supplies.

Groundwater movement within the upper glacial and Magothy aquifers is primarily through the coarser-grained sediments towards local (i.e., wells, small streams) or regional (i.e., rivers) groundwater discharge points. Because of the expected low hydraulic conductivity of fine grained deposits in comparison to the

coarser sand/gravel deposits, local silt/clay lenses or the more extensive aquitard units are expected to serve as barriers to vertical groundwater migration.

Across the study area to the Peconic River, the water table was generally encountered within about 20 feet of ground surface. Near the Peconic River, the depth to groundwater decreased to less than 10 feet from ground surface because groundwater (in general) appears to be discharging to the river in this area.

Groundwater Flow Directions

A local groundwater divide is believed to be present at NWIRP Calverton. Based on previously published information and on RFI data interpretations (HNUS, 1995a), the general direction of groundwater flow across the southern and eastern portions of NWIRP Calverton, including the study area, is east-southeast, towards the Peconic River, while groundwater in the northern portion of the facility flows northward towards Long Island Sound.

During the Phase 2 RI (Tetra Tech, 2001), a focused groundwater investigation was performed in the Southern Area to determine whether the Peconic River was the discharge point for the shallow groundwater migrating in this direction from the facility or whether some groundwater bypassed the river and migrated to areas further south. The study involved the installation of several well clusters on both sides and in the immediate vicinity of the river, the installation of two staff gauges in the river, and the collection of four rounds of water level data from the wells and staff gauges. Wells were screened to a maximum depth of approximately 80 feet bgs. Potentiometric surface interpretations based on water level data from the well clusters indicated that the river is the ultimate discharge point for groundwater to a depth of up to 80 feet bgs in this area.

In 1997, the Nature Conservancy - Long Island Chapter prepared several water table contour maps for the general Calverton area for shallowly screened wells (upper portions of the upper glacial aquifer). These maps indicated that the groundwater flow direction within the Southern Area is generally to the east-southeast, towards the Peconic River. An overall groundwater flow gradient across the study area of approximately 0.0012 was calculated based on the water table contour maps. This overall flow gradient was in good agreement with site-specific groundwater flow gradients observed during groundwater investigations.

Based on groundwater levels collected in September 2010 (Table 2-1), Figure 2-4 was created to present the potentiometric surface for the shallow wells in the western portion of the study area (Site 2-Fire Training Area). Groundwater flow at Site 2 is toward the southeast, with elevations ranging from 39 to 41 feet msl.

Figures 2-5 and 2-6 present the groundwater elevations for the shallow wells from Site 6A, Site 10B, and the Southern Area, in April and September 2010. The April event was taken right after a major rain event which significantly raised groundwater elevations throughout the study area, while the September event was taken during a period where water levels were more normalized. Based on this data, groundwater flow is toward the southeast from Site 6A toward the Peconic River, with groundwater elevations ranging from 42.71 (FC-MW01S) to 27.25 (SA-PZ118S) feet msl in April, 42.88 (FC-MW01S) to 26.63 (SA-PZ166I) in July, and 39.27 (FC-MW08S) to 25.77 (SA-PZ120S) feet msl in September. During periods of heavier precipitation events (as with the conditions observed in April 2010) the groundwater flow direction is more to the south towards the lake on the PRSC and during periods of lighter precipitation or more normalized conditions, groundwater flow shifts to the southeast and east due to the influence by the same lake. This lake on PRSC property is present due to a manmade dam on the Peconic River. Groundwater likely flows under and around the dam creating a localized disturbance from the typical flow.

Groundwater potentiometric surface maps for the intermediate (I) and deep (D) wells in the Southern Area were not provided in this report. The potentiometric surface contours for the intermediate zone mimic the surficial aquifer and the deeper portion of the aquifer has shown a fairly consistent groundwater flow southeasterly towards the Peconic River. Areas in the Southern Area where the aquitard unit is present, a downward gradient has been observed across the aquitard. Analysis of vertical flow between the intermediate and deep wells at the well cluster SA-MW-127 has shown this downward vertical gradient between these two wells. This gradient also suggests that the aquitard present beneath the northern portion of the study area plays a key role in limiting the vertical migration of contaminated groundwater, although the gradient is higher; the permeability is much lower between the two zones, resulting in an overall decrease in vertical groundwater velocity. Of particular interest is the discharge point for groundwater to a maximum depth of 130 feet msl, which is the maximum depth of contaminated groundwater in this area that was shown to discharge to the Peconic River.

Where the aquitard is not present (southeast portion of Southern Area) a slight upward gradient has been observed during groundwater monitoring, causing groundwater to flow up into the Peconic River. Analysis of vertical flow between the intermediate and deep wells at the well cluster SA-MW-131 displays this upward vertical gradient at this well cluster.

3.0 FIELD INVESTIGATION

3.1 FIELD AND SAMPLING ACTIVITIES

The 2010 groundwater investigation and monitoring activities at Sites 2, 6A, 10B, and the Southern Area were conducted as a continuance of the annual groundwater monitoring program at these sites, to further delineate the Southern Area groundwater plume, and to address data gaps in the current monitoring well network (Southern Area). The field and sampling activities included temporary well installation and sampling, permanent monitoring well installation, sampling of new and existing monitoring wells, surveying of new monitoring wells, semi-annual surface water and sediment sampling in the Peconic River, and quarterly water supply well sampling at the PRSC. These activities were conducted to further evaluate site contaminants in groundwater and provide data to evaluate potential impacts of contaminated groundwater to downgradient receptors and to support the Corrective Measures Study (CMS).

The following subsections provide details on the groundwater investigation and groundwater monitoring activities, and also identify the sampling locations and type of samples that were collected.

3.1.1 Temporary Monitoring Well Installation

In March and April 2010, a groundwater investigation and sampling event was conducted in the area between Site 10B and River Road. A total of eight temporary wells were installed via DPT rig using a 4-foot stainless steel screen point sampler. Temporary well locations consisted of one to four sample depths depending on the depth to groundwater and actual depth to the aquitard (49 to 56 feet bgs).

In June 2010, a second sampling event was conducted and included the installation of twenty more temporary monitoring wells. These temporary monitoring wells were placed on site and off site between Site 10B and the PRSC, to the southeast, which included locations on Suffolk County Parklands property. Like the March and April event, temporary well locations consisted of one to four sample depths. These temporary wells were also installed via a DPT rig in which screen-point samples were collected at each depth with a 4-foot stainless steel screen.

In September 2010, a third sampling event was conducted which included the installation of twelve temporary wells via DPT drilling techniques. Six temporary wells were installed at three to four depths (11-15, 21-25, 31-35, and a few instances 41-45 ft bgs) in the northern portion of the Southern Area plume near Site 6A, while the other six temporary wells were installed north of the SA-MW-128 cluster at three depths (16-20, 26-30, and 36-40 feet bgs) to address a potential data gap in this area (Figure 3-1).

All temporary well screens ranged from a depth of approximately 12 to 45 feet bgs. Prior to collecting groundwater samples, the top of the aquitard was confirmed at selected locations via macrocore soil sampling. This aquitard has been observed in this northern portion of the Southern Area ranging from 40 to 60 feet bgs. Soil cuttings generated during drilling were screened with a photoionization detector (PID) and visually inspected for signs of contamination. If there were no indications of contamination, cuttings were spread on the ground at the onsite locations. All cuttings generated at the offsite drilling locations were containerized in 55 gallon drums. During the drilling, potable water was added to control flowing sands from entering the annulus of the rods as needed. Prior to sampling, the volume of water added to install the temporary wells was purged prior to collecting groundwater samples. The groundwater grab/temporary well locations are presented on Table 3-1, and the table includes soil boring locations and actual depths of the groundwater sampling. The temporary well locations can be found on Figure 3-1 and the soil boring logs are presented in Appendix A.

3.1.2 Temporary Monitoring Well Sampling

Groundwater samples were obtained from the temporary well locations (Figure 3-1). A total of 124 groundwater grab samples were collected from the 40 temporary well locations in March, April, June, and September 2010. In March and April 2010 a total of 22 groundwater/grab samples were collected from eight temporary well locations (SA-TW-318 to SA-TW-324 and SA-TW-330). Depths of groundwater samples ranged from 11 to 56 feet bgs. In June 2010, a total of 64 groundwater grab samples were collected from 20 temporary well locations at depths ranging from 8 to 54 feet bgs. In September 2010, a total of 38 groundwater grab samples were collected from 12 temporary well locations at depths ranging from 11 to 45 feet bgs. In most cases, the deepest sample from each boring was located just above the aquitard unit observed in the study area. The temporary well sampling depths are presented in Table 3-1. The groundwater sample log sheets that provide sampling details are presented in Appendix B.

Groundwater samples were collected via a DPT screen point sampler using a peristaltic pump during all of the sampling events. Purging was conducted at each sample depth to assure connectivity to the aquifer and remove any water added during drilling. All the samples were shipped via overnight courier to a fixed-based laboratory and analyzed for VOCs.

3.1.3 Monitoring Well and Piezometer Installation

Nineteen piezometers were installed in the Southern Area during groundwater investigation activities (Figure 3-2) in 2010. Eight piezometers were installed in the onsite portion of the Southern Area from March 22 to March 25, 2010 to fill in data gaps (Figure 3-2), nine piezometers were installed in the offsite portion of the Southern Area from June 15 to June 23, 2010 on Suffolk County Parklands property to fill in

the data gaps south of River Road and west of Connecticut Avenue (Figure 3-2), and two piezometers were installed along the northern shore of the Peconic River on July 20, 2010 to better monitor groundwater entering the river (Figure 3-2).

The new piezometer depths ranged from approximately 6 to 56 feet bgs, including four shallow wells (3 - 15 feet bgs), fourteen intermediate-depth wells (30 - 50 feet bgs), and one deep well (56 feet bgs). Depths were finalized in the field based on actual depths and thickness of the aquitard and depth to the water table. Seventeen of the piezometers were constructed using 1-inch diameter polyvinyl chloride (PVC), with 5 or 10 feet long, 0.010 inch slot, pre-packed well screens, with a bentonite seal. Additional granular bentonite was used during installation to provide a thicker seal above the well screens. The remainder of the annular space up to the ground surface was filled using bentonite/cement grout. Piezometers on Navy property were finished with an approximate 2-foot stickup, while monitoring wells on Suffolk County property were fitted with a lockable steel protective casing. Each piezometer was developed by hand using a stainless steel footvalve and disposable poly tubing. The monitoring wells were developed to remove drilling fluids and any fine-grained material left in the casing from installation. A construction summary for these piezometers is presented as Table 3-2. Soil Boring Logs can be found in Appendix A while the Construction Sheets and Development Records are presented in Appendix C.

The piezometers were installed using a DPT rig and constructed in a 3¼- inch diameter boring. In order to control running sands, limited amounts of potable water was added as needed during the drilling. Soil cuttings were screened with a PID and visually inspected for signs of contamination. If no elevated PID reading or visual signs of contamination was observed, the soil cuttings from onsite locations were spread on the ground near the Piezometer location. All offsite soil cuttings were containerized in 55-gallon drums and managed as solid investigation-derived waste (IDW).

Piezometers SA-PZ147 and SA-PZ148 were constructed with 1¼-inch diameter stainless steel, with a 3-foot long 10-slot well screen, and 5 feet of riser pipe. Both well screens were hand driven in place and set from 3 to 6 ft bgs along the north side of the Peconic River. Since these monitoring wells were hand driven, a bentonite seal and sand pack was not added.

3.1.4 Monitoring Well and Piezometer Sampling

Groundwater sampling was conducted at Sites 2, 6A, 10B, and the Southern Area. There are 13 existing groundwater monitoring wells at Site 2 (Figure 3-3), 13 monitoring wells at Site 6A (Figure 3-4), 3 monitoring wells at Site 10B (Figure 3-4), and 28 monitoring wells and two piezometers in the Southern Area (Figure 3-2). Nineteen additional piezometers were installed in the Southern Area (8 for the Bio Study investigation, 9 in the offsite Southern Area and 2 on the Peconic River) (Figure 3-2). Monitoring

well construction details for Site 2 are presented on Table 3-3, the well construction details for Site 6A and 10B are presented as Table 3-4, and the Southern Area well details are presented on Table 3-2.

In March and April 2010, eight piezometers (SA-PZ133I, SA-PZ133I1, and SA-PZ134 through SA-PZ139I) were sampled in the Southern Area. These wells were sampled for VOCs and split-samples were collected by SCDHS. These locations were installed and sampled to help determine placement of the Bio Study monitoring and injection wells.

In June and July 2010, three piezometers in the onsite Southern Area (SA-PZ133I, SA-PZ138I, and SA-PZ139I), nine piezometers in the offsite Southern Area (SA-PZ140 through SA-PZ143; SA-PZ-144S and SA-PZ144I; and SA-PZ145S, SA-PZ145I, and SA-PZ145D), and four Piezometers along the Peconic River (SA-PZ124, 125, 147, and 148) were sampled for VOCs. Several split-samples were collected by SCDHS.

Between September 13, and September 22, 2010, 67 monitoring wells and piezometers were sampled during the annual groundwater monitoring event (Site 2 – 13 monitoring wells, Site 6A - 13 monitoring wells, Site 10B - 3 monitoring wells, Onsite Southern Area – 28 monitoring wells, offsite Southern Area - 6 monitoring wells, and the Peconic River - 4 monitoring wells), (see Figures 3-1 through 3-4). FC-MW02SR1, FC-MW02IR1, and FC-MW03SR1 were reinstalled after excavation activities at Site 6A and were sampled during the annual sampling event. All groundwater samples were analyzed for VOCs and select monitoring wells were sampled for MEE.

Groundwater samples were collected from the monitoring wells and piezometers using USEPA Region 3 low-flow (low-stress) purging and sampling techniques. Sampling occurred after field parameters stabilized and a minimum of three well screen volumes were purged. Field parameters including turbidity, dissolved oxygen, pH, specific conductance, and temperature were recorded during low-flow purging and sampling activities. Low-flow purge data and groundwater sample log sheets can be found in Appendix D. All purge water was contained in 5-gallon buckets and later transferred to a 2,600 gallon polyethylene tank.

Quality Assurance/Quality Control (QA/QC) samples were collected during the sampling and included matrix spike/matrix spike duplicates (MS/MSD), field duplicates, field blanks, rinsate blanks. The information was documented on QA sample log sheets which can be found in Appendix E. The Chain of Custody (COC) forms are presented in Appendix F.

On April 7, 2010, July 28, 2010, and September 22, 2010, groundwater level measurements were collected and recorded for site monitoring wells as presented in Table 2-1 and Appendix G.

In addition to groundwater monitoring wells, six samples were collected from the four active water supply wells on PRSC property located south of Grumman Boulevard and west of Connecticut Avenue, on a quarterly basis (Figure 3-2). These samples were collected to monitor the quality of groundwater in the supply wells. There are four active wells on the property, three of the wells were used for potable water and one well is used as part of a fire suppression system (Figure 3-2). In addition, one of the supply wells at the Activity Center has an operating two-stage liquid phase GAC unit. Three treatment system samples were collected; one prior to treatment (CA-PRSC-02-01), one in between the first and second-unit (CA-PRSC-02-02) and another sample collected after the second phase unit or post treatment (CA-PRSC-02-03). Samples were also collected from the Main Lodge (CA-PRSC-01), a private home (CA-PRSC-03), and the fire suppression system (CA-PRSC-04) and all samples were analyzed for VOCs. The water supply well at the Pistol Range trailer was not active and therefore not sampled.

The GAC was replaced on the treatment system at the PRSC in April 2010.

3.1.5 Survey

All new monitoring wells, piezometers, and selected existing monitoring wells were surveyed by BANC3 Inc., a licensed New York surveyor. Vertical and horizontal measurements were collected and the survey results can be found in Appendix H. A summary of top of casing elevations is provided in Tables 3-2, 3-3, and 3-4.

3.1.6 Pumping Tests

Two pumping tests were conducted in 2010 to determine the hydraulic conductivity of the aquifer in the Southern Area. Eleven additional piezometers were installed to monitor groundwater levels during the pumping tests. Pumping Test #1 was conducted along the patrol road around the SA-MW127 monitoring well cluster on July 14 and 15, 2010. Pumping Test #2 was conducted along Connecticut Avenue around the SA-PZ123 well cluster on July 20 and 21, 2010. Electronic transducers were used to measure the groundwater levels from multiple monitoring wells of differing distances from the pumping test well. Additional pumping test details will be included in the Feasibility Study (FS).

3.1.7 Biodegradation Pilot Study

The initial ethyl lactate injection for a biodegradation pilot study was conducted in July 2010 and a second injection was conducted in October 2010. This pilot study is being conducted to determine whether enhancement of the biodegradation process could be a viable remedial alternative to address select

areas of contaminated groundwater in the Southern Area. As specified in the June 2010 Work Plan Addendum, groundwater sampling and analysis were conducted in July, October, (before the ethyl lactate injections) and December at eighteen piezometers. Groundwater samples were analyzed for VOCs, nitrate/nitrite/sulfate/chloride, sulfide, methane, ethane, ethene, total organic carbon, ferrous iron and manganese, Dehalobacter (DHB) and Dehalococcoides (DHC). A more complete description of this pilot study will be included in the Feasibility Study (FS).

3.1.8 Surface Water Sampling

A total of eight surface water samples were collected, four in July and four in September 2010 along the Peconic River from Connecticut Avenue to a location approximately 2,100 feet down river (Figure 3-2). This portion of the river represents the probable discharge point in the Peconic River for VOC-contaminated groundwater in the Southern Area Plume.

Two of the sample locations are readily accessible points located along the river. The other two sample locations, which are accessible by boat or wading under low flow conditions, correspond to existing piezometers (SA-PZ124 and SA-PZ125) installed in 2006. Two additional piezometers (SA-PZ147 and SA-PZ148) were installed on July 20, 2010, which were also sampled in both events. Surface water samples were collected from near the bottom of the stream, using an inverted sample container. To address potential preferential flow of groundwater into the river, the river bottom at each sample location was probed in a north-south direction to distinguish fine grained silts/clays versus sand. The surface water samples were collected at the northern edge of the sandy bottom portion of the stream. Surface water samples were analyzed for VOCs. Sample log sheets are presented in Appendix I.

3.1.9 Sediment Sampling

A total of eight sediment samples, co-located with the surface water sample locations, were collected along the Peconic River. Four sediment samples were collected in July and four sediment samples were collected in September 2010 (Figure 3-2). The sediment samples were collected from fine grained silts or clays located in the upper six inches of the river bottom. These samples were collected from the northern edge of the stream. Sediment samples were analyzed for VOCs. Sample log sheets are presented in Appendix I.

3.2 FIELD OBSERVATIONS

The following summarizes key field observations made during the 2010 field activities.

- During March 2010, a substantial rain event with a cumulative rainfall of over 9 inches occurred, causing localized flooding with several wells located in up to 6 inches of standing water. In addition, the semi-annual Peconic River surface water and sediment sampling event was postponed until July 21, 2010, due to the elevated water levels in the river and strong current.
- At Site 2, approximately 0.07 feet of floating free product was found in monitoring well FT-MW-02S and a PID reading of 8.6 parts per million (ppm) was observed.
- Several of the groundwater samples from temporary wells and piezometers were split with SCDHS in 2010. In addition to VOCs, SCDHS collected samples for metals, perchlorate, and inorganics (metals, nitrate, chloride, etc.).

4.0 ANALYTICAL RESULTS AND FINDINGS

4.1 INTRODUCTION

This section presents the results of the chemical analyses performed for water, groundwater, sediment, and surface water samples collected at NWIRP Calverton from November 2009 through October 2010. Samples collected during field sampling activities were shipped to CompuChem Environmental Testing Laboratories of Cary, North Carolina for analysis. Chain of Custodies that document sample collection can be found in Appendix F. All samples were analyzed for VOCs and select groundwater samples were analyzed for biodegradation indicators (i.e.,MEE). Laboratory analytical forms are presented in Appendix J and validation summaries are provided in Appendix K.

A total of 215 groundwater samples were collected from Sites 2, 6A, 10B, Southern Area, and the Peconic River in April, July and September 2010. In April 2010, 30 groundwater samples were collected in the Onsite Southern Area (8 piezometers and 22 temporary monitoring well samples from eight locations). In June and July 2010, 80 groundwater samples were collected from the Onsite Southern Area (19 piezometers and 46 temporary monitoring well samples from 14 locations), the Offsite Southern Area (9 piezometers and 16 temporary monitoring well samples from six locations), and the Peconic River (4 piezometer samples). In addition, 4 surface water, and 4 sediment samples were collected from the Peconic River in July 2010. In September 2010, 105 groundwater samples were collected from Site 2 (13 monitoring well samples), Site 6A (13 monitoring well samples), Site 10B (3 monitoring well samples), Southern Area (72 samples total with 38 temporary monitoring well samples from 12 locations), Peconic River (4 piezometer locations along the river). Another round of surface water and sediment samples (4 samples each) were collected from the Peconic River in September 2010.

Groundwater analytical results were screened against NYSDOH MCLs and federal MCLs. Oakridge National Laboratory Surface Water Values were used for screening surface water samples. Tables 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, and 4-7 present summaries of VOC detections in groundwater samples collected from Sites 2, 6A, 10B, Southern Area, Southern Area Temporary Wells, Peconic River surface water, and Peconic River sediments, respectively, during the 2010 sampling events. For comparison, analytical data from 2008 and 2009 sampling is also presented in these tables. Table 4-8 presents a summary of VOC detections for groundwater samples collected from the PRSC supply wells in 2009 and 2010. Figures 4-1 (Site 2), 4-2 (Site 6A and 10B), 4-3 (Onsite Southern Area), 4-4 (Offsite Southern Area), 4-5 (Onsite Southern Area Temporary Monitoring Wells), 4-6 (Offsite Southern Area Temporary Monitoring Wells), 4-7 (Peconic River surface water and sediment), and 4-8 (PRSC) present a summary of historical and current analytical detections and exceedances. Figure 4-9 presents DCA isoconcentration contours for the Southern Area, SCDHS data was included in the creation of the isoconcentration contours for this figure. The DCA isoconcentration map provides a graphical representation of the overall groundwater

plume since the other compounds of concern detected in Southern Area groundwater are located within the footprint of this DCA plume boundary.

4.2 Site 2-Fire Training Area Results

A total of 13 monitoring wells were sampled at Site 2 during the annual event conducted in September 2010. The groundwater samples were analyzed for VOCs and monitoring wells FT-MW02S, MW02I, MW05S, MW05I, MW08S, and MW08I were also analyzed for MEE. Seventeen VOCs were detected in six of the thirteen monitoring wells sampled. Of the monitoring wells that contained detectable concentrations of VOCs, only one monitoring well, FT-MW02S, contained VOCs (DCA, ethylbenzene, m+p xylenes, o-xylene, and total xylenes) at concentrations equal to or greater than the NYSDOH MCL of 5 µg/L. Figure 4-1 and Table 4-1 presents the VOC detections at Site 2.

4.3 Site 6A-Fuel Calibration Area Results

A total of 13 monitoring wells were sampled at Site 6A in September 2010. The groundwater samples were analyzed for VOCs and monitoring wells FC-MW02SR1, MW02IR1, MW03SR1, MW05S, and MW05I were also analyzed for MEE. Monitoring wells FC-MW02S, MW02I, and MW03S were abandoned during excavation activities at Site 6A in 2009 and were reinstalled in 2010 and sampled as FC-MW02SR1, MW02IR1, and MW03SR1. Fifteen VOCs were detected in the monitoring wells sampled at Site 6A. Of the monitoring wells that contained detectable concentrations of VOCs, three monitoring wells, FC-MW02SR1, MW03SR1, and MW05S, contained one or more VOCs (DCA, 2-butanone, ethylbenzene, m+p xylenes, o-xylene, and total xylenes) at concentrations equal to or greater than the NYSDOH MCL of 5 µg/L (Figure 4-2 and Table 4-2).

4.4 Site 10B-Engine Test House Results

Three groundwater samples were collected from monitoring wells ET-MW01S, MW02S, and MW03S at Site 10B in September 2010 and analyzed for VOCs. Five VOCs (TCA, methylene chloride, toluene, isopropylbenzene, and ethylbenzene) were detected in at least one of the three groundwater samples collected at Site 10B in 2010, but none of the concentrations exceeded the NYSDOH MCL of 5 µg/L (Figure 4-2 and Table 4-3).

4.5 Southern Area Results

4.5.1 Onsite Temporary Well and Piezometer Program Sampling Results

In March and April 2010, eight newly installed piezometers (SA-PZ133I, PZ133I1, and PZ134 through PZ139) were sampled for VOCs. Eleven VOCs were detected in seven of the eight piezometers sampled. Of the piezometers with detectable concentrations of VOCs, six of them contained concentrations of one or more VOCs exceeding NYSDOH MCLs. Specifically, SA-PZ133I, PZ135, and PZ139 contained concentrations of TCA, DCA, DCE, and CE exceeding NYSDOH MCLs (Figure 4-3). The highest concentrations were observed in SA-PZ133I. SA-PZ-133I and 138 were re-sampled in July 2010 as part of an ongoing bio-study and analytical results showed a decrease in concentrations of VOCs. Table 4-4 provides a complete analytical summary of the detected compounds. The following table provides a summary of the primary VOCs and corresponding concentrations detected in the onsite piezometers.

Onsite Piezometer Sample Summary				
Constituents (µg/L)				
Sample/Event	**TCA**	**DCA**	**DCE**	**CE**
SA-PZ133I/ Mar 2010	120	460	41	67
SA-PZ133I/ July 2010	24	130	7.8	9.6
SA-PZ133I1/ Mar 2010	2 J	26	1.6 J	4.9 J
SA-PZ135/ Mar 2010	70	260	22	15 J
SA-PZ139I/ April 2010	35	160	11	22 J
SA-PZ139I/ July 2010	2.3 J	17	0.94 J	1.8 J

µg/L – micrograms per liter
J - Estimated Value

In March and April 2010, 22 groundwater samples were collected and analyzed for VOCs. These samples were obtained from eight temporary monitoring well locations (SA-TW318 through TW324 and SA-TW330) in the Southern Area. Fifteen VOCs were detected in the groundwater samples collected at these locations. Specifically, SA-TW320-3034 and SA-TW322-3842 contained concentrations of TCA (440 µg/L and 320 µg/L), DCA (1,200 µg/L and 1,000 µg/L), DCE (86 µg/L and 90 µg/L), and CE (270 µg/L and 140 µg/L) exceeding NYSDOH MCLs (Figure 4-5). Table 4-5 provides a summary of detections and Figure 4-5 presents the temporary well locations and the distribution of VOC detections at these locations. Detections of TCA were found in nine of the groundwater samples at concentrations ranging from 0.32 µg/L in SA-TW318-4650 to 440 µg/L in SA-TW320-3034. Detections of DCA were found in twelve groundwater samples at concentrations ranging from 0.55 µg/L in SA-TW324-4549 to 1200 µg/L in SA-TW320-3034. Detections of DCE were observed in six groundwater samples at concentrations ranging from 0.89 µg/L in SA-TW319-3842 to 90 µg/L in SA-TW322-3842. Detections of CE were observed in three groundwater samples at concentrations ranging from 4.2 µg/L in SA-TW322-4549 to 270 µg/L in SA-TW320-3034.

Based on the temporary well and piezometer results, additional temporary wells were placed further upgradient to delineate VOCs in Southern Area groundwater. In July 2010, a total of 51 groundwater samples were collected (48 from temporary monitoring wells and 3 piezometers) and analyzed for VOCs. A total of 6 VOCs were detected in the 3 piezometer samples. Of the three groundwater samples that contained detectable concentrations of VOCs, SA-PZ133I contained concentrations of TCA (24 µg/L), DCA (130 µg/L), DCE (7.8 µg/L), and CE (9.6 µg/L) exceeding NYSDOH MCLs (Figure 4-3). A total of 28 VOCs were detected in forty of the groundwater grab samples collected from the temporary monitoring wells. Of the groundwater samples that contained detectable concentrations of VOCs, 22 of the samples contained VOCs at concentrations that were equal to or greater than NYSDOH MCLs. Specifically, SA-TW326-4246, 327-4145, 328-3237, 328-3640, 329-4044, 333-3135, 335-2125, 335-3135, 336-3135, 338-3135, 340-3135, and 343-3135 contained concentrations of TCA, DCA, DCE, and CE exceeding NYSDOH MCLs (Figure 4-5). The highest concentration of TCA (570 µg/L), DCA (2,100 µg/L), DCE (110 µg/L), and CE (470 µg/L) was found in SA-TW335-3135. Table 4-5 provides a summary of VOC detections and Figure 4-5 presents the temporary well locations along with the distribution of VOC detections for these locations. The following table provides a summary of the primary VOCs and corresponding concentrations detected in the temporary wells.

Onsite Temporary Monitoring Well Sample Summary				
Constituents (µg/L)				
Sample/Event	**TCA**	**DCA**	**DCE**	**CE**
SA-TW333-3135/ June 2010	250	740	43	240
SA-TW335-2125/ June 2010	70	280	16	76
SA-TW335-3135/ June 2010	570	2,100	110	470
SA-TW336-3135/ June 2010	55	240	15	110
SA-TW338-3135/ June 2010	130	950	37	240
SA-TW340-3135/ June 2010	70 J	460 J	21 J	310 J
SA-TW343-3135/ June 2010	120	1,400 J	60	970 J

µg/L – micrograms per liter
J - Estimated Value

After evaluation of these temporary well results, six additional temporary well locations (SA-TW346 through TW351) were advanced in the upgradient direction towards Site 6A in September 2010. Analytical results indicated elevated levels of VOCs at SA-TW348-2125, TW349-2125, and TW349-31-35. The highest concentration of TCA (1,200 µg/L) and DCA (1,300 µg/L) was found in SA-TW349-3135. Table 4-5 provides a summary of VOC detections and Figure 4-5 presents the temporary well locations along with the distribution of VOC detections for these locations.

Onsite Temporary Monitoring Well Sample Summary				
Constituents (µg/L)				
Sample/Event	**TCA**	**DCA**	**DCE**	**CE**
SA-TW348-2125/ Sept 2010	550	1500	72	340
SA-TW349-2125/ Sept 2010	830	1,200	61	500
SA-TW349-3135/ Sept 2010	1,200	1,300	76	250

µg/L – micrograms per liter
J - Estimated Value

4.5.2 Offsite County Property Temporary Well and Piezometer Sampling Results

In June 2010, nine newly installed piezometers in the offsite county property (SA-PZ140 through 143, 144S, 144I, 145S, 145I, and 145D) were sampled and analyzed for VOCs. Fourteen VOCs were detected in seven of the nine piezometers. Five piezometers contained concentrations of one or more VOCs exceeding NYSDOH MCLs (Figures 4-4 and 4-6). Specifically, SA-PZ140, 142, 143 and 145I contained concentrations of TCA, DCA, DCE, and CE exceeding NYSDOH MCLs. The highest concentration of TCA (110 µg/L), DCA (590 µg/L), DCE (39 µg/L), and CE (44 µg/L) was observed in SA-PZ143. Table 4-4 provides a summary of VOCs detected in these piezometers.

Sixteen additional groundwater samples were collected from six temporary monitoring well locations in June 2010 and analyzed for VOCs. A total of 15 VOCs were detected in ten of the groundwater grab samples collected from the temporary monitoring wells. Of the 10 groundwater samples that contained detectable concentrations of VOCs, 9 of the samples contained VOCs at concentrations that were equal to or greater than NYSDOH MCLs. Specifically, SA-TW326-4246, 327-4145, 328-3237, 328-3640, 329-4044, contained concentrations of TCA, DCA, DCE, and CE exceeding NYSDOH MCLs (Figure 4-6). The highest concentrations of TCA (170 µg/L), DCA (900 µg/L), DCE (69 µg/L), and CE (36 µg/L) were found in SA-TW329-4044. Table 4-5 provides a summary of VOC detections and Figure 4-6 presents the temporary well locations along with the distribution of VOC detections from these locations. The following table provides a summary of the primary VOCs and corresponding concentrations detected in the temporary wells.

Offsite Temporary Monitoring Well Sample Summary				
Constituents (µg/L)				
Sample/Event	**TCA**	**DCA**	**DCE**	**CE**
SA-TW326-4246/ June 2010	44	310	15	22
SA-TW327-4145/ June 2010	67	310	19	34
SA-TW327-4145 DUP/ June 2010	68	330	17	36
SA-TW328-2327/ June 2010	19	360	19	29
SA-TW328-3640/ June 2010	28	170	12	10
SA-TW329-4044/ June 2010	170	900	69	39 J

µg/L – micrograms per liter
J - Estimated Value

In September 2010, six offsite piezometers (SA-PZ140, 143, 145S, 145I, 145D, and 166I) were sampled for VOCs. Ten VOCs were detected in five of the six piezometers. The highest concentration TCA (110 µg/L), DCA (600 µg/L), DCE (52 µg/L), and CE (7.1 µg/L) was found in SA-PZ143. Table 4-4 provides a summary of all the detected compounds and the following table provides a summary of the primary VOCs and corresponding concentrations detected in select piezometers..

Offsite Piezometer Sample Summary				
Constituents (µg/L)				
Sample/Event	**TCA**	**DCA**	**DCE**	**CE**
SA-PZ140/ June 2010	17	140	8.5	19
SA-PZ140/ Sept 2010	9	93	6.7	14
SA-PZ140 DUP/ Sept 2010	10 J	100 J	7.8 J	15 J
SA-PZ142/ June 2010	60	410	21	36
SA-PZ143/ June 2010	110	590	39	44
SA-PZ143/ Sept 2010	110	600	52	7.1 J
SA-PZ145I/ June 2010	8.7	91	8.2	6.1
SA-PZ145I/ Sept 2010	6.1	66	8.4	4.5 J
SA-PZ145I DUP/ Sept 2010	5.9 J	69 J	8.7 J	4.1 J

µg/L – micrograms per liter
J - Estimated Value

4.5.3 Annual Event Monitoring Well Sampling Results

A total of 28 groundwater samples were collected from the Southern Area permanent monitoring wells during the 2010 annual sampling event. These samples were analyzed for VOCs and monitoring wells SA-MW127S, 127I, 127D, 128S, 128I, 128D, SA-PZ118S, 118I, 123S, 123I, and 123I1 were also sampled for MEE. Table 4-4 provides a summary of analytical detections in the Southern Area and analytical data from 2008 and 2009 groundwater sampling is also provided for comparison. Figure 4-3 presents the distribution of detected compounds and also provides historical groundwater sampling results for monitoring wells in the Southern Area.

A total of 7 VOCs were detected in 18 of the 28 monitoring wells sampled in 2010. Of the 18 monitoring wells that contained detectable concentrations of VOCs, 6 wells contained VOCs at concentrations that were greater than or equal to NYSDOH MCLs. The highest concentration of TCA (18 µg/L), DCA (130 µg/L), and DCE (13 µg/L) was found in SA-MW131I. The following table provides a summary of the primary VOCs and corresponding concentrations detected in the six monitoring wells.

Monitoring Well Sample Summary			
Constituents (µg/L)			
Sample/Event	**TCA**	**DCA**	**DCE**
SA-MW127I/ Sept 2010	1.2 J	9.1 J	ND
SA-MW127I DUP/ Sept 2010	1.1	9.3	ND
SA-MW128I/ Sept 2010	1.1	10 J	ND
SA-MW131I/ Sept 2010	18 J	130 J	13 J
SA-MW131D/ Sept 2010	13 J	2.3 J	ND
SA-PZ122I/ Sept 2010	9.7	1.2 J	ND
SA-PZ123I/ Sept 2010	0.59 J	42 J	6.9 J

µg/L – micrograms per liter
J - Estimated Value
ND – Not detected

4.5.4 Peconic River Sampling Results

A total of 8 groundwater samples, 8 surface water samples, and 8 sediment samples were collected in the Peconic River during the two rounds of sampling conducted in July and September 2010. Groundwater, surface water, and sediment samples were analyzed for VOCs. Tables 4-4 (page 6 and 7), 4-6 and 4-7 provides a summary of analytical detections in groundwater, surface water and sediment samples, respectively, and also includes the analytical data from 2008 and 2009 sampling events for comparison. Figure 4-7 presents the distribution of detected compounds and also provides historical sampling results for the surface water and sediment sample locations on the Peconic River.

VOCs were detected in two of the groundwater piezometer samples (SA-PZ124 and SA-PZ147) during the 2010 sampling events. DCA exceeded the NYSDOH MCLs in SA-PZ124 in July and September 2010 at 15 µg/L and 22 µg/L, respectively. DCA was detected in SA-PZ147 at 4.4 µg/L during the September 2010 sampling event. DCE was detected in SA-PZ124 at 2.1 µg/L and 5.5 µg/L during the July and September 2010 sampling events, respectively. The surface water samples collected during the July and September 2010 sampling events contained no detectable concentrations of VOCs.

Five VOCs were detected in one sediment sample, SA-SD124, during the July and September sampling events. Acetone was detected at 260 and 130 µg/kg, respectively. These concentrations exceeded the Oak Ridge National Laboratory sediment values and NYSDEC Unrestricted soil cleanup objectives. However, they did not exceed the NYSDEC Ecological Soil Cleanup Objectives. Carbon disulfide was detected at 3.4 µg/kg during the July sampling at SA-SD124. This detection exceeded the Oak Ridge National Laboratory sediment values. Carbon disulfide was not detected at this location during the September sampling event.

4.5.5 Peconic River Sportsman Club Sampling Results

Six water samples were collected from four active water supply wells at the PRSC during each sampling event in November 2009, and February, April, and July 2010. Table 4-7 and Figure 4-8 presents the analytical detections from the 2010 sampling events. The sample locations were as follows:

- CA-PRSC-01 (Main Lodge)
- CA-PRSC-02-01 (Activity Center pre-Carbon GAC)
- CA-PRSC-02 (Activity Center between Carbon GAC)
- CA-PRSC-02-03 (Activity Center after Carbon GAC)
- CA-PRSC-03 (Private Home)
- CA-PRSC-04 (Fire Suppression System)

Based on the sampling results from the eleven quarterly sampling events from 2008 to 2010, similar analytical results have been observed at all six of the sample locations. Sample locations CA-PRSC-03 and CA-PRSC-04 have shown no detections of VOCs through all eleven rounds of sampling. Sample locations CA-PRSC01, CA-PRSC03, and CA-PRSC04 showed no detections of VOCs during the 2010 sampling events.

At the Activity Center, the supply well has an operating two-stage liquid phase GAC unit. Samples are collected from this supply well as follows: 1) prior to treatment, 2) in between the first and second carbon unit and 3) after treatment. The pre-treatment sample, CA-PRSC-02-01, has consistently shown detections of DCA exceeding NYSDOH MCLs over the eleven rounds of sampling. DCA was detected during the February (12 µg/L), April (9.9 µg/L), and July (11 µg/L) sampling events. DCE (5.4 ug/L) was detected above the NYSDOH MCL of 5 µg/L in only the first round of sampling conducted in February 2010. In the past, this sample location has also shown detections of 1,2-dichloroethane, 1,2-dichloroethylene, cis-1,2-dichloroethene, trichloroethene, toluene, benzene, and 1,24-trichlorobenzene at concentrations below NYSDOH MCLs.

Sample results for CA-PRSC-02-02, collected in between the first and second carbon unit, has shown detections of DCA, 1,2-dichloroethane, and isopropylbenzene at concentrations below the NYSDOH MCLs during the eleven rounds of sampling. DCA was detected at concentrations of 2.1 and 2.4 µg/L in the first two rounds of sampling in 2010. After the sampling event in April 2010, the Navy replaced the GAC in the treatment system. No detections of VOCs were observed during the July 2010 sampling event. Low concentrations of isopropylbenzene, chloromethane, and methyl tert-butyl ether have been observed in CA-PRSC-02-03 (post-carbon) at concentrations below the NYSDOH MCLs. Specifically in the January and June 2008 sampling events, and now in this most recent sampling event in July 2010,

isopropylbenzene was detected at 0.32 J µg/L. These analytical results from CA-PRSC-02-03 show that the treatment at the Activity Center is still affective.

5.0 CONCLUSIONS

Conclusions based on the 2010 groundwater investigative activities are as follows:

1. Based on the data collected from the vertical profiling of groundwater from temporary monitoring well locations, the Southern Area groundwater plume is reasonably well defined and Site 6A is the probable primary source of groundwater contamination in the Southern Area.

2. Primary VOCs detected in most monitoring wells in the Southern Area consist of 1,1-DCA, 1,1,1-TCA, 1,1-DCE, and chloroethane. Other VOCs that have been detected periodically above MCLs include: isopropylbenzene, benzene, ethylbenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, xylenes, and vinyl chloride.

3. Groundwater flow data supports the shifting of the downgradient edge of the Southern Area plume to the east due to influence from the PRSC Pond.

4. Significant fluctuations in contaminant concentrations (i.e., 470 µg/L to 9.3 µg/L, and non-detect to 130 µg/L) have been observed in Southern Area monitoring wells. These fluctuations appear to be the result of variable groundwater flow patterns that are impacted by precipitation events and influence from the PRSC Pond and Peconic River.

5. The Southern Area groundwater plume is narrow and thin north of River Road (approximately 2,700 feet long, 100-200 feet wide, and 5-10 feet thick). Predominant flow is to the southeast and the flow pathway is relatively constant.

6. The Southern Area groundwater plume south of River Road is approximately 3,500 feet long, 2,000 feet wide, and 10-40 feet thick. Predominant flow is to the east-southeast; but near the PRSC pond, flow is also to the northeast and east.

7. PRSC Pond and the Northwest tributary (which discharges to the pond) affect the groundwater flow path locally and the affects are influenced by precipitation events. After the major rain event observed in March 2010, flow in this area changed to the south-southeast.

8. Concentrations of the primary VOCs in the Southern Area plume decrease with distance south of River Road.

9. Concentrations of 1,1-DCA observed in piezometers placed on the northside of the Peconic River have ranged from non-detect to 38 µg/L. These concentrations have fluctuated as the

footprint of the groundwater plume appears to shift northeast and southwest near the river based on precipitation events.

10. Groundwater sampling at Site 2 indicated only one monitoring well (FT-MW02S) with VOC concentrations above MCL's and evidence of free product (0.07 feet).

11. Annual groundwater sampling conducted from January 2008 through September 2010 at Site 10B has indicated low concentrations of VOCs below MCL's at all three monitoring wells.

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TABLES

TABLE 2-1
GROUNDWATER AND SURFACE WATER ELEVATION DATA
NWIRP CALVERTON, NEW YORK

Site	Type	Monitoring Well ID	Screened Interval (feet bgs)	Reference Elevation TOC PVC (ft msl)	Ground Surface Elevation (ft msl)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)
						4/7/2010		7/28/2010		9/22/2010	
2	SHALLOW	FT-MW01S	18.5 - 28.5	64.16	62.12	18.51	45.65	NA	NA	22.47	41.69
		FT-MW02S	10.5 - 20.5	55.57	53.34	10.86	44.71	NA	NA	14.58	40.99
		FT-MW03S	21.5 - 31.5	66.87	64.38	20.84	46.03	NA	NA	25.18	41.69
		FT-MW04S	17 - 27	61.33	59.95	16.77	44.56	NA	NA	20.23	41.10
		FT-MW05S	7.5 - 17.5	51.92	49.37	8.52	43.40	NA	NA	11.49	40.43
		FT-MW06S	17 - 27	61.99	59.44	16.91	45.08	NA	NA	20.75	41.24
		FT-MW07S	25 - 35	70.30	68.33	24.74	45.56	NA	NA	29.28	41.02
		FT-MW08S	3 - 14	47.92	NA	5.29	42.63	NA	NA	7.99	39.93
2	INTERMEDIATE	FT-MW01I	68 - 78	63.88	62.11	18.21	45.67	NA	NA	22.19	41.69
		FT-MW02I	70 - 80	55.47	53.26	10.78	44.69	NA	NA	14.40	41.07
		FT-MW05I	48 - 58	51.48	49.87	8.92	42.56	NA	NA	11.90	39.58
		FT-MW06I	65 - 75	61.28	60.38	17.97	43.31	NA	NA	21.77	39.51
		FT-MW08I	23 - 33	47.92	NA	5.40	42.52	NA	NA	8.08	39.84
6A	SHALLOW	FC-MW01S	5 - 15	47.50	46.56*	4.79	42.71	40.00	7.50	8.66	38.84
		FC-MW02SR1	NA	NA	NA	NA	NA	NA	NA	7.87	NA
		FC-MW03SR1	NA	NA	NA	NA	NA	NA	NA	7.50	NA
		FC-MW04S	3 - 13	45.40	44.46*	3.25	42.15	39.25	6.15	7.19	38.21
		FC-MW05S	6 - 16	48.03	47.09*	6.79	41.24	38.58	9.45	10.40	37.63
		FC-MW06S	9 - 19	50.66	49.72*	8.93	41.73	39.18	11.48	12.39	38.27
		FC-MW07S	5 - 15	48.34	46.38*	6.53	41.81	39.02	9.32	10.34	38.00
		FC-MW08S	2 - 12	45.18	43.22*	NA	NA	40.37	4.81	5.91	39.27
6A	INTERMEDIATE	FC-MW01I	48 - 58	47.35	46.41*	4.61	42.74	40.04	7.31	8.46	38.89
		FC-MW02IR1	NA	NA	NA	NA	NA	NA	NA	7.84	NA
		FC-MW04I	40 - 50	45.32	44.37*	3.14	40.71	39.29	6.03	7.10	38.22
		FC-MW05I	48 - 58	47.35	46.4*	6.11	47.35	38.58	8.77	9.73	37.62
		FC-MW07I	48 - 58	48.25	46.13	6.46	45.11	38.99	9.26	10.28	37.97
10B	SHALLOW	ET-MW01S	7 - 17	47.53	45.22	7.30	41.42	37.90	9.63	10.55	36.98
		ET-MW02S	7 - 17	46.95	44.55	6.84	40.49	37.80	9.15	10.08	36.87
		ET-MW03S	7 - 17	47.81	45.31	7.58	40.51	37.87	9.94	10.91	36.90
SOUTHERN AREA	SHALLOW	SA-MW126S	5 - 15	39.79	37.40	3.81	35.98	34.64	5.15	5.55	34.24
		SA-MW127S	5 - 15	40.57	38.38	4.86	35.71	33.72	6.85	7.44	33.13
		SA-MW128S	7 - 17	40.54	38.26	6.18	34.36	31.88	8.66	9.42	31.12
		SA-MW129S	19.5 - 20.5	51.92	49.75	19.25	32.67	30.20	21.72	22.41	29.51
		SA-MW130S	9 - 19	48.60	45.83	9.69	38.91	35.90	12.70	13.70	34.90
		SA-MW131S	4 - 14	38.59	36.20	7.15	31.44	30.08	8.51	9.00	29.59
		SA-MW132S	4 - 14	36.75	34.09	4.05	32.70	30.82	5.93	6.25	30.50
		SA-PZ118S	6 - 16	31.13	29.12*	3.88	27.25	26.06	5.07	5.33	25.80
		SA-PZ120S	8 - 18	32.35	30.34*	4.82	27.53	26.18	6.17	6.58	25.77
		SA-PZ122S	12 - 22	43.75	41.16	13.20	30.55	29.00	14.75	15.14	28.61
		SA-PZ123S	7 - 17	36.96	34.50	8.20	28.76	27.80	9.16	9.45	27.51
		SA-PZ124	3 - 6	NA	NA	NA	NA	NA	NA	NA	NA
		SA-PZ125	3 - 6	NA	NA	NA	NA	NA	NA	NA	NA
		SA-PZ144S	5 - 15	41.50	38.82	NA	NA	32.30	9.20	9.43	32.07
		SA-PZ145S	5 - 15	40.96	37.95	NA	NA	31.40	9.56	10.18	30.78
		SA-PZ146	3 - 6	38.70	33.17	2.86	34.09	33.61	5.09	4.18	34.52
		SA-PZ147	3 - 6	NA	NA	NA	NA	NA	NA	NA	NA
		SA-PZ148	3 - 6	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2-1
GROUNDWATER AND SURFACE WATER ELEVATION DATA
NWIRP CALVERTON, NEW YORK

Site	Type	Monitoring Well ID	Screened Interval (feet bgs)	Reference Elevation TOC PVC (ft msl)	Ground Surface Elevation (ft msl)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)
						4/7/2010		7/28/2010		9/22/2010	
SOUTHERN AREA	INTERMEDIATE	SA-MW126I	40 - 50	39.97	37.54	3.96	36.01	34.69	5.28	5.66	34.31
		SA-MW127I	36 - 46	40.79	38.51	5.07	35.72	33.72	7.07	7.64	33.15
		SA-MW128I	30 - 40	40.96	38.59	6.65	34.31	31.82	9.14	9.88	31.08
		SA-MW129I	50 - 60	52.16	49.92	19.52	32.64	30.18	21.98	22.67	29.49
		SA-MW130I	36 - 46	48.33	45.91	9.49	38.84	35.86	12.47	13.49	34.84
		SA-MW131I	30 - 40	38.24	36.03	6.81	31.43	30.08	8.16	8.66	29.58
		SA-MW132I	27 - 37	36.76	34.02	4.09	32.67	30.82	5.94	6.25	30.51
		SA-PZ118I	50 - 60	31.68	29.67*	4.20	27.48	26.16	5.52	5.91	25.77
		SA-PZ122I	39 - 49	43.57	41.25	12.95	30.62	29.04	14.53	14.95	28.62
		SA-PZ123I1	32 - 42	37.51	34.50	8.71	28.80	27.84	9.67	9.97	27.54
		SA-PZ133I	42 - 47	41.55	39.51	5.83	35.72	33.70	7.85	NA	41.55
		SA-PZ133I1	35 - 40	41.43	39.32	5.86	35.57	33.56	7.87	NA	41.43
		SA-PZ134	39 - 44	39.62	36.96	4.16	35.46	33.35	6.27	6.89	32.73
		SA-PZ135	41.5 - 46.5	38.75	36.69	2.80	35.95	34.02	4.73	5.26	33.49
		SA-PZ136	44 - 49	39.55	37.42	3.70	35.85	NA	NA	5.90	33.65
		SA-PZ137	49 - 54	41.67	39.25	5.80	35.87	34.22	7.45	7.90	33.77
SOUTHERN AREA	INTERMEDIATE	SA-PZ138I	48.5 - 53.5	40.03	36.94	3.07	36.96	NA	NA	5.76	34.27
		SA-PZ139I	42.5 - 47.5	42.28	39.95	5.72	36.56	NA	NA	8.65	33.63
		SA-PZ140	44.5 - 49.5	46.40	43.32	NA	NA	32.52	13.88	14.46	31.94
		SA-PZ141	50.5 - 55.5	46.08	43.79	NA	NA	31.97	14.11	14.00	32.08
		SA-PZ142	40.5 - 45.5	47.26	44.47	NA	NA	31.96	15.30	15.73	31.53
		SA-PZ143	41 - 46	46.39	43.95	NA	NA	31.52	14.87	15.21	31.18
		SA-PZ144I	45 - 50	41.76	38.93	NA	NA	32.64	9.12	9.37	32.39
		SA-PZ145I	30 - 35	41.11	38.11	NA	NA	31.38	9.73	10.35	30.76
		SA-PZ166I	60 - 80	33.03	30.16	NA	NA	26.63	6.40	6.61	26.42
SOUTHERN AREA	DEEP	SA-MW126D	74 - 84	40.04	37.54	3.78	35.43	33.85	6.19	7.09	32.95
		SA-MW127D	68 - 78	40.57	38.51	5.10	40.57	33.06	7.51	8.45	32.12
		SA-MW128D	58 - 68	40.64	38.59	6.17	37.50	31.99	8.65	9.54	31.10
		SA-MW129D	80 - 90	52.19	49.92	19.36	46.08	30.37	21.82	22.58	29.61
		SA-MW131D	60 - 70	37.82	NA	5.56	31.36	30.56	7.26	7.89	29.93
		SA-PZ122D	122 - 132	43.47	41.25	11.25	36.17	30.37	13.10	13.82	29.65
		SA-PZ123I	70 - 80	38.02	35.26	9.38	31.18	27.71	10.31	10.58	27.44
		SA-PZ145D	50 - 55	40.98	37.84	NA	NA	32.09	8.89	9.79	31.19
SOUTHERN AREA	SURFACE WATER	Staff Gauge #1 WS PRSC	NA	32.37	NA	2.12	27.76	30.87	1.50	1.52	30.85
		Staff Gauge #2 ES PRSC	NA	32.41	NA	2.00	32.41	30.74	1.67	1.40	31.01
		BM ES Conn Ave HDWL	NA	30.44	NA	3.46	27.30	25.35	5.09	5.54	24.90

TABLE 3-1
TEMPORARY WELL/GROUNDWATER GRAB DETAILS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Temporary Monitoring Well	Installation Date	Depth of Groundwater Sample (feet)
SA-TW318-4650	4/1/2010	46 - 50
SA-TW319-3842	4/1/2010	38 - 42
SA-TW319-4549	4/1/2010	45 - 49
SA-TW320-1115	4/1/2010	11 - 15
SA-TW320-3034	4/1/2010	30 - 34
SA-TW320-5155	4/1/2010	51 - 55
SA-TW321-1115	4/1/2010	11 - 15
SA-TW321-3034	4/1/2010	30 - 34
SA-TW321-4953	4/1/2010	49 - 53
SA-TW322-1115	4/2/2010	11 - 15
SA-TW322-2630	4/2/2010	26 - 30
SA-TW322-3842	4/2/2010	38 - 42
SA-TW322-4549	4/2/2010	45 - 49
SA-TW323-1418	3/31/2010	14 - 18
SA-TW323-3034	3/31/2010	30 - 34
SA-TW323-5256	3/31/2010	52 - 56
SA-TW324-1216	3/31/2010	12 - 16
SA-TW324-3034	3/31/2010	30 - 34
SA-TW324-4549	3/31/2010	45 - 49
SA-TW325-1822	6/21/2010	18 - 22
SA-TW325-3236	6/21/2010	32 - 36
SA-TW325-5054	6/21/2010	50 - 54
SA-TW326-1822	6/18/2010	18 - 22
SA-TW326-3236	6/18/2010	32 - 36
SA-TW326-4246	6/18/2010	42 - 46
SA-TW327-1014	6/22/2010	10 - 14
SA-TW327-2630	6/22/2010	26 - 30
SA-TW327-4145	6/22/2010	41 - 45
SA-TW328-0812	6/17/2010	8 - 12
SA-TW328-2327	6/17/2010	23 - 27
SA-TW328-3640	6/17/2010	36 - 40
SA-TW329-1014	6/18/2010	10 - 14
SA-TW329-2630	6/18/2010	26 - 30
SA-TW329-4044	6/18/2010	40 - 44
SA-TW330-1822	3/31/2010	18 - 22
SA-TW330-3034	3/31/2010	30 - 34
SA-TW330-5054	3/31/2010	50 - 54
SA-TW331-1115	6/2/2010	11 - 15
SA-TW331-2125	6/2/2010	21 - 25
SA-TW331-3135	6/2/2010	31 - 35

TABLE 3-1
TEMPORARY WELL/GROUNDWATER GRAB DETAILS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Temporary Monitoring Well	Installation Date	Depth of Groundwater Sample (feet)
SA-TW332-1115	6/1/2010	11 - 15
SA-TW332-2125	6/1/2010	21 - 25
SA-TW332-3135	6/1/2010	31 - 35
SA-TW333-1115	6/1/2010	11 - 15
SA-TW333-2125	6/1/2010	21 - 25
SA-TW333-3135	6/1/2010	31 - 35
SA-TW334-1115	6/3/2010	11 - 15
SA-TW334-2125	6/3/2010	21 - 25
SA-TW334-3135	6/3/2010	31 - 35
SA-TW334-4145	6/3/2010	41-45
SA-TW335-1115	6/2/2010	11 - 15
SA-TW335-2125	6/2/2010	21 - 25
SA-TW335-3135	6/2/2010	31 - 35
SA-TW335-4145	6/2/2010	41 - 45
SA-TW336-1115	6/2/2010	11 - 15
SA-TW336-2125	6/2/2010	21 - 25
SA-TW336-3135	6/2/2010	31 - 35
SA-TW3371115	6/3/2010	11 - 15
SA-TW337-2125	6/3/2010	21 - 25
SA-TW337-3135	6/3/2010	31 - 35
SA-TW338-1115	6/3/2010	11 - 15
SA-TW338-2125	6/3/2010	21 - 25
SA-TW338-3135	6/3/2010	31 - 35
SA-TW339-1115	6/3/2010	11 - 15
SA-TW339-2125	6/3/2010	21 - 25
SA-TW339-3135	6/3/2010	31 - 35
SA-TW340-2125	6/30/2010	21 - 25
SA-TW340-3135	6/30/2010	31 - 35
SA-TW340-4145	6/30/2010	41 - 45
SA-TW341-1115	6/29/2010	11 - 15
SA-TW341-2125	6/29/2010	21 - 25
SA-TW341-3135	6/29/2010	31 - 35
SA-TW341-4145	6/29/2010	41 - 45
SA-TW342-1115	6/29/2010	11 - 15
SA-TW342-2125	6/29/2010	21 - 25
SA-TW342-3135	6/29/2010	31 - 35
SA-TW342-4145	6/29/2010	41 - 45
SA-TW343-1115	6/29/2010	11 - 15
SA-TW343-2125	6/29/2010	21 - 25
SA-TW343-3135	6/29/2010	31 - 35

TABLE 3-1
TEMPORARY WELL/GROUNDWATER GRAB DETAILS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Temporary Monitoring Well	Installation Date	Depth of Groundwater Sample (feet)
SA-TW343-4145	6/29/2010	41 - 45
SA-TW344-1115	6/30/2010	11 - 15
SA-TW344-2125	6/30/2010	21 - 25
SA-TW344-3135	6/30/2010	31 - 35
SA-TW344-4145	6/30/2010	41 - 45
SA-TW345-4145	6/28/2010	41 - 45
SA-TW346-1115	9/7/2010	11-15
SA-TW346-2125	9/7/2010	21-25
SA-TW346-3135	9/7/2010	31-35
SA-TW346-4145	9/7/2010	41-45
SA-TW347-1115	9/9/2010	11-15
SA-TW347-2125	9/9/2010	21-25
SA-TW347-3135	9/9/2010	31-35
SA-TW348-1115	9/9/2010	11-15
SA-TW348-2125	9/9/2010	21-25
SA-TW348-3135	9/9/2010	31-35
SA-TW349-1115	9/9/2010	11-15
SA-TW349-2125	9/9/2010	21-25
SA-TW349-3135	9/9/2010	31-35
SA-TW350-1115	9/7/2010	11-15
SA-TW350-2125	9/7/2010	21-25
SA-TW350-3135	9/7/2010	31-35
SA-TW351-1115	9/7/2010	11-15
SA-TW351-2125	9/7/2010	21-25
SA-TW351-3135	9/7/2010	31-35
SA-TW351-4145	9/7/2010	41-45
SA-TW352-1620	9/8/2010	16-20
SA-TW352-2630	9/8/2010	26-30
SA-TW352-3640	9/8/2010	36-40
SA-TW353-1620	9/8/2010	16-20
SA-TW353-2630	9/8/2010	26-30
SA-TW353-3640	9/8/2010	36-40
SA-TW354-1620	9/8/2010	16-20
SA-TW354-2630	9/8/2010	26-30
SA-TW354-3640	9/8/2010	36-40
SA-TW355-1620	9/10/2010	16-20
SA-TW355-2630	9/10/2010	26-30
SA-TW355-3640	9/10/2010	36-40
SA-TW356-1620	9/8/2010	16-20
SA-TW356-2630	9/8/2010	26-30

TABLE 3-1
TEMPORARY WELL/GROUNDWATER GRAB DETAILS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Temporary Monitoring Well	Installation Date	Depth of Groundwater Sample (feet)
SA-TW356-3640	9/8/2010	36-40
SA-TW357-1620	9/10/2010	16-20
SA-TW357-2630	9/10/2010	26-30
SA-TW357-3640	9/10/2010	36-40

TABLE 3-2
SOUTHERN AREA
MONITORING WELL CONSTRUCTION DETAILS
NWIRP CALVERTON, NEW YORK

Monitoring Well ID	Installation Date	Total Depth (feet)	Screened Interval Depth (feet)	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)
SA-PZ118S	5/3/2007	16	6 - 16	31.13	29.23
SA-PZ118I	5/3/2007	60	50 - 60	31.68	29.22
SA-PZ120S	5/4/2007	18	8 - 18	32.35	30.34*
SA-PZ122S	12/21/2007	22	12 - 22	43.75	41.11
SA-PZ122I	12/20/2007	49	39 - 49	43.57	41.20
SA-PZ122D	12/21/2007	132	122 - 132	43.47	41.31
SA-PZ123S	1/2/2008	17	7 - 17	36.96	34.47
SA-PZ123I1	1/2/2008	42	32 - 42	37.51	34.75
SA-PZ123I	1/3/2008	80	70 - 80	38.02	35.16
SA-MW126S	12/6/2007	15	5 - 15	39.79	37.36
SA-MW126I	12/6/2007	50	40 - 50	39.97	37.52
SA-MW126D	12/4/2007	84	74 - 84	40.04	37.37
SA-MW127S	12/11/2007	15	5 to 15	40.57	38.26
SA-MW127I	12/11/2007	46	36 - 46	40.79	38.43
SA-MW127D	12/10/2007	78	68 - 78	40.57	38.46
SA-MW128S	12/14/2007	17	7 - 17	40.54	38.19
SA-MW128I	12/13/2007	40	30 - 40	40.96	38.62
SA-MW128D	12/12/2007	68	58 -68	40.64	38.34
SA-MW129S	12/19/2007	29.5	19.5 - 29.5	51.92	49.75
SA-MW129I	12/19/2007	60	50 - 60	52.16	49.92
SA-MW129D	12/18/2007	90	80 - 90	52.19	49.92
SA-MW130S	9/10/2009	19	9-19	48.6	45.83
SA-MW130I	9/9/2009	50	36-46	48.33	45.91
SA-MW131S	9/2/2009	14	4-14	38.59	36.20
SA-MW131I	9/2/2009	40	30-40	38.24	36.03
SA-MW131D	9/1/2009	70	60-70	37.82	35.84
SA-MW132S	9/8/2009	14	4-14	36.75	34.09
SA-MW132I	9/3/2009	37	27-37	36.76	34.02
Top Staff Gauge 1 WS PRSC	9/29/2009	**3.33**	NA	32.38[1]	NA
Top Staff Gauge 2 ES PRSC	9/29/2009	**3.33**	NA	32.41[1]	NA
Benchmark ES Conn AVE	NA	NA	NA	30.44	NA
SA-PZ133I	3/23/2010	49	42 - 47	41.545	39.511
SA-PZ133I1	3/23/2010	43	35 - 40	41.43	39.319
SA-PZ134	3/24/2010	47	39 - 44	39.62	36.955
SA-PZ135	3/23/2010	48	41.5 - 46.5	38.747	36.688
SA-PZ136	3/22/2010	51	44 - 49	39.552	37.417
SA-PZ137	3/23/2010	56	49 - 54	41.666	39.251
SA-PZ138I	3/25/2010	56	48.5 - 53.5	40.03	36.94
SA-PZ139I	3/25/2010	49	42.5 - 47.5	42.277	39.951
SA-PZ140	6/14/2010	52	44.5 - 49.5	46.4	43.319
SA-PZ141	6/15/2010	58	50.5 - 55.5	46.083	43.793
SA-PZ142	6/16/2010	48	40.5 - 45.5	47.262	44.47
SA-PZ143	6/17/2010	48	41 - 46	46.394	43.95

TABLE 3-2
SOUTHERN AREA
MONITORING WELL CONSTRUCTION DETAILS
NWIRP CALVERTON, NEW YORK

Monitoring Well ID	Installation Date	Total Depth (feet)	Screened Interval Depth (feet)	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)
SA-PZ144S	6/18/2010	17	5 - 15	41.503	38.823
SA-PZ144I	6/19/2010	52	45 - 50	41.761	38.927
SA-PZ145S	6/20/2010	17.79	5 - 15	40.956	37.947
SA-PZ145I	6/21/2010	37.72	30 - 35	41.109	38.111
SA-PZ145D	6/22/2010	57.8	50 - 55	40.984	37.844
SA-PZ147	7/1/2010	NA	3 - 6	NA	NA
SA-PZ148	7/1/2010	NA	3 - 6	NA	NA
SA-PZ166I	6/24/2010	80.5	60 - 80	33.034	30.16

NOTES:
SA = Southern Area
MW = Monitoring Well
NA = Not Available
* Ground surface elevation is estimated
[1] Note bottom of gauge
Bold value is the length of staff gauges

TABLE 3-3
SITE 2 - FIRE TRAINING AREA
MONITORING WELL CONSTRUCTION DETAILS
NWIRP CALVERTON, NEW YORK

Monitoring Well ID	Installation Date	Total Depth (feet)	Screened Interval Depth (feet)	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)
FT-MW01I	7/13/1994	78	68 - 78	64.16	62.11
FT-MW01S	6/30/1994	28.5	18.5 - 28.5	63.88	62.12
FT-MW02I	7/20/1994	80	70 - 80	55.57	53.26
FT-MW02S	7/5/1994	20.5	10.5 - 20.5	55.47	53.34
FT-MW03	6/30/1994	31.5	21.5 - 31.5	66.87	64.38
FT-MW04	7/1/1994	27	17 - 27	61.33	59.95
FT-MW05S	7/7/1994	17.5	7.5 - 17.5	51.48	49.37
FT-MW05I	7/19/1994	58	48 - 58	51.92	49.87
FT-MW06S	7/7/1994	27	17 - 27	61.28	59.44
FT-MW06I	7/14/1994	75	65 - 75	61.99	60.38
FT-MW07S	7/7/1994	35	25 - 35	70.3	68.33
FT-MW08S	6/7/1997	14	3 - 14	47.92	NA
FT-MW08I	6/21/1997	33	23 - 33	48.01	NA

NOTES:
FT = Fire Training Area
MW = Monitoring Well
TOC = Top of Casing
NA = Not Available

TABLE 3-4
SITE 6A AND SITE 10B
MONITORING WELL CONSTRUCTION DETAILS
NWIRP CALVERTON, NEW YORK

Monitoring Well ID	Installation Date	Total Depth (feet)	Screened Interval Depth (feet)	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)
Site 6A					
FC-MW01S	7/14/1994	15	5 - 15	48.56	46.56*
FC-MW01I	7/25/1994	58	48 - 58	48.40	46.41*
FC-MW02SR1	5/24/2010	14.5	NA	NA	NA
FC-MW02IR1	5/24/2010	52.5	NA	NA	NA
FC-MW03SR1	5/24/2010	14.5	NA	NA	NA
FC-MW04S	7/22/1994	13	3 - 13	46.46	44.46*
FC-MW04I	7/26/1994	50	40 - 50	46.37	44.37*
FC-MW05S	7/15/1994	16	6 - 16	48.03	45.50
FC-MW05I	7/21/1994	58	48 - 58	47.35	45.43
FC-MW06S	7/20/1994	19	9 - 19	50.66	48.48
FC-MW07S	NA	15	5 - 15	48.34	45.89
FC-MW07I	9/10/2009	58	48-58	48.25	46.13
FC-MW08S	NA	12	2 - 12	45.22	43.22*
Site 10B					
ET-MW01S	1/3/2008	17	7 - 17	47.53	45.17
ET-MW02S	1/3/2008	17	7 - 17	46.95	44.52
ET-MW03S	1/4/2008	17	7 - 17	47.81	45.24

NOTES:
FC = Fuel Calibration Area
ET = Engine Test House
MW = Monitoring Well
NA = Not Available
TOC = Top of Casing
* Estimated

TABLE 4-1
GROUNDWATER ANALYTICAL DETECTIONS
SITE 2- FORMER FIRE TRAINING AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	FT-MW01S (Jan-08)	FT-MW01S (Sept-09)	FT-MW01S (Sept-10)	FT-MW01I (Jan-08)	FT-MW01I (Sept-09)	FT-MW01I (Sept-10)	FT-MW02S (Jan-08)	FT-MW02S (Sept-09)	FT-MW02S (DUP) (Sept-09)	FT-MW02S (Sept-10)	FT-MW02S (DUP) (Sept-10)	FT-MW02I (Jan-08)	FT-MW02I (Sept-09)	FT-MW02I (Sept-10)	FT-MW03 (Jan-08)	FT-MW03 (Sept-09)	FT-MW03 (Sept-10)	FT-MW04 (Jan-08)	FT-MW04 (Sept-09)
Volatile Organic Compounds (µg/l)																						
1,1,1-Trichloroethane	71-55-6	200	5																			
1,1-Dichloroethane	75-34-3		5							**17**	**5.7 J**	**5.9 J**	**15**	**11**								
1,1-Dichloroethene	75-35-4	7	5																			
1,2-Dichlorobenzene	95-50-1	600	5							**21**	**5.2 J**	**5.3 J**	4.3 J	4.2 J								
1,2-Dichloroethene (total)	540-59-0		5							**9 J**												
1,2,4-Trichlorobenzene	120-82-1	70	5						1.5 J		2.2 J											
1,4-Dichlorobenzene	106-46-7	75	5							**8**	2.0 J	1.6 J	1.6 J									
Benzene	71-43-2	5	5										0.31 J									
2-Butanone	78-93-3		50							6	10 J	8.1 J	15	12 J								
Carbon disulfide	75-15-0		50										2.3 J									
Chlorobenzene	108-90-7	100	5							3 J												
Chloromethane	74-87-3		5																			
Chloroform	67-66-3	80	5				0.7 J								0.5 J							
cis-1,2-Dichloroethene	156-59-2	70	5							**9**												
Cyclohexane	1735-17-7		50							1 J	1.7 J	1.7 J										
Ethylbenzene	100-41-4	700	5							**24**	**14 J**	**15 J**	**6.2**	**5.3**								
Isopropylbenzene	98-82-8		5							8	4.8 J	5 J	2.5 J	1.8 J								
Methylcyclohexane	108-87-2		50							3 J	2.5 J	2.5 J										
Tetrachloroethene	127-18-4	5	5																			
Toluene	108-88-3	1,000	5							**46**												
Trichloroethene	79-01-6	5	5							0.6 J			2.8 J	2.8 J				0.6 J	2.2 J			
Vinyl chloride	75-01-4	2	2							**3 J**	1.4 J	1.4 J										
m+p-xylenes	1330-20-7		5							**120**	**18 J**	**20 J**	**8.6 J**	**6.3 J**								
o-Xylene	95-47-6		5							**47**	4.7 J	**5.2 J**	**13**	**10**								
Xylenes (total)	1330-20-7	10,000	50							**170**	**23 J**	**25 J**	**22 J**	**16 J**								
Naphthalene	91-20-3		50						4.2 J		41 J	41 J	26	20								
Acetone	67-64-1		50										64	55								
Methane, Ethene, Ethane (µg/l)																						
Methane	74-82-8			NA	NA	NA	NA	NA	NA	9,100	240 J	340 J	230	230 D	8.2 J	NA	ND	NA	NA	NA	NA	NA

NOTES:
CAS - Chemical Abstracts Service
MCL - Maximum contaminate level
NA - Not Analyzed
J - Estimated Value
µg/L - Micrograms per liter
NYSDOH- New York State Department of Health
Blank cells - No Criteria or Not Detected

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

Bold - Indicates Exceedances from NYSDOH MCLs
*Acetone and Methylene Chloride were detected in some samples but are considered lab contaminants

TABLE 4-1
GROUNDWATER ANALYTICAL DETECTIONS
SITE 2- FORMER FIRE TRAINING AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	FT-MW04 (Sept-10)	FT-MW05S (Jan-08)	FT-MW05S (Sept-09)	FT-MW05S (Sept-10)	FT-MW05I (Jan-08)	FT-MW05I (Sept-09)	FT-MW05I (Sept-10)	FT-MW06S (Jan-08)	FT-MW06S (Sept-09)	FT-MW06S (Sept-10)	FT-MW06I (Jan-08)	FT-MW06I (Sept-09)	FT-MW06I (Sept-10)	FT-MW07 (Jan-08)	FT-MW07 (DUP) (Jan-08)	FT-MW07 (Sept-09)	FT-MW07S (Sept-10)	FT-MW08S (Jan-08)	FT-MW08S (Sept-09)
Volatile Organic Compounds (µg/l)																						
1,1,1-Trichloroethane	71-55-6	200	5																			
1,1-Dichloroethane	75-34-3		5																		0.6 J	
1,1-Dichloroethene	75-35-4	7	5																			
1,2-Dichlorobenzene	95-50-1	600	5																		0.4 J	
1,2-Dichloroethene (total)	540-59-0		5																		0.4 J	
1,2,4-Trichlorobenzene	120-82-1	70	5																			
1,4-Dichlorobenzene	106-46-7	75	5																			
Benzene	71-43-2	5	5																			
2-Butanone	78-93-3		50																			
Carbon disulfide	75-15-0		50																	0.16 J		
Chlorobenzene	108-90-7	100	5																			
Chloromethane	74-87-3		5																			
Chloroform	67-66-3	80	5					0.8 J		0.52 J				0.6 J		0.51 J						
cis-1,2-Dichloroethene	156-59-2	70	5																		0.4 J	
Cyclohexane	1735-17-7		50																			
Ethylbenzene	100-41-4	700	5																			
Isopropylbenzene	98-82-8		5																			
Methylcyclohexane	108-87-2		50																			
Tetrachloroethene	127-18-4	5	5																			
Toluene	108-88-3	1,000	5																			
Trichloroethene	79-01-6	5	5																			
Vinyl chloride	75-01-4	2	2																			
m+p-xylenes	1330-20-7		5																			
o-Xylene	95-47-6		5																			
Xylenes (total)	1330-20-7	10,000	50																			
Naphthalene	91-20-3		50						1.8 J													
Acetone	67-64-1		50																			
Methane, Ethene, Ethane (µg/l)																						
Methane	74-82-8			NA	30	2 J	ND	NA	NA	0.45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	960	NA

NOTES:
CAS - Chemical Abstracts Service
MCL - Maximum contaminate level
NA - Not Analyzed
J - Estimated Value
µg/L - Micrograms per liter
NYSDOH- New York State Department of Health
Blank cells - No Criteria or Not Detected

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

Bold - Indicates Exceedances from NYSDOH MCLs
*Acetone and Methylene Chloride were detected in some samples but are considered lab contaminants

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	FT-MW08S (Sept-10)	FT-MW08I (Jan-08)	FT-MW08I (Sept-09)	FT-MW08I (Sept-10)
Volatile Organic Compounds (µg/l)							
1,1,1-Trichloroethane	71-55-6	200	5				
1,1-Dichloroethane	75-34-3		5				2.2 J
1,1-Dichloroethene	75-35-4	7	5				
1,2-Dichlorobenzene	95-50-1	600	5				2.5 J
1,2-Dichloroethene (total)	540-59-0		5				
1,2,4-Trichlorobenzene	120-82-1	70	5				
1,4-Dichlorobenzene	106-46-7	75	5				
Benzene	71-43-2	5	5				
2-Butanone	78-93-3		50				
Carbon disulfide	75-15-0		50				
Chlorobenzene	108-90-7	100	5				
Chloromethane	74-87-3		5				
Chloroform	67-66-3	80	5				
cis-1,2-Dichloroethene	156-59-2	70	5				
Cyclohexane	1735-17-7		50				
Ethylbenzene	100-41-4	700	5				
Isopropylbenzene	98-82-8		5				0.66 J
Methylcyclohexane	108-87-2		50				
Tetrachloroethene	127-18-4	5	5				
Toluene	108-88-3	1,000	5				
Trichloroethene	79-01-6	5	5				
Vinyl chloride	75-01-4	2	2				
m+p-xylenes	1330-20-7		5				
o-Xylene	95-47-6		5				0.90 J
Xylenes (total)	1330-20-7	10,000	50				0.90 J
Naphthalene	91-20-3		50				
Acetone	67-64-1		50				
Methane, Ethene, Ethane (µg/l)							
Methane	74-82-8			11	NA	NA	37

NOTES:
CAS - Chemical Abstracts Service
MCL - Maximum contaminate level
NA - Not Analyzed
J - Estimated Value
µg/L - Micrograms per liter
NYSDOH- New York State Department of Health
Blank cells - No Criteria or Not Detected

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

Bold - Indicates Exceedances from NYSDOH MCLs
*Acetone and Methylene Chloride were detected in some samples but are considered lab contaminants

TABLE 4-2
GROUNDWATER ANALYTICAL DETECTIONS
SITE 6A-FUEL CALIBRATION AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	FC-MW01S (Jan-08)	FC-MW01S (Aug-08)	FC-MW01S (Sept-09)	FC-MW01S (Sept-10)	FC-MW01I (Jan-08)	FC-MW01I (Aug-08)	FC-MW01I (Sept-09)	FC-MW01I (Sept-10)	FC-MW02S (Jan-08)	FC-MW02S (DUP) (Jan-08)	FC-MW02S (Aug-08)	FC-MW02S (DUP) (Aug-08)	FC-MW02S (Sept-10)	FC-MW02S (DUP) (Sept-10)	FC-MW02I (Jan-08)	FC-MW02I (Aug-08)	FC-MW02I (Sept-10)	FC-MW03S (Jan-08)	FC-MW03S (Aug-08)	FC-MW03S (Sept-10)
Volatile Organic Compounds (µg/l)																							
1,1,1-Trichloroethane	71-55-6	200	5									2 J	2 J										
1,1-Dichloroethane	75-34-3		5									**6**	**6**	3	3	**11**	**11**	0.7 J					1.3 J
1,1-Dichloroethene	75-35-4	7	5									0.7 J											
2-Butanone	78-93-3		50											1 J		18 J	33 J						
Carbon disulfide	75-15-0		50													1.0 J				0.36 J			
Chloroethane	75-00-3		5									4 J	4 J	3	3								
Chloromethane	74-87-3		5																				
Benzene	71-43-2	5	5																				
1,2-Dichlorobenzene	95-50-1	600	5													1.5 J	1.4 J						1.8 J
1,2,4-Trichlorobenzene	120-82-1	70	5																				
Ethylbenzene	100-41-4	700	5									0.4 J	0.5 J			**6.3**	4.6 J						**23**
Isopropylbenzene	98-82-8		5													4.7 J	4.0 J						13
Freon-113	76-13-1		50															1 J					
Methylcyclohexane	108-87-2		50									1 J	1 J	0.4 J			1.7 J						
Tetrachloroethene	127-18-4	5	5																				
Toluene	108-88-3	1000	5									3 J	3 J	0.5 J	0.5 J		1.2 J						
Napthalene	91-20-3		50													18	17						
Methylene Chloride	75-09-2	5	5														16 J						
m+p-xylenes	1330-20-7		5									4 J	**5 J**			**21 J**	**13 J**						**15**
o-Xylene	95-47-6		5									**5**	**5**	0.4 J	0.4 J	**17 J**	**12 J**						
Xylenes (total)	1330-20-7	10,000	50									9 J	10 J	0.4 J	0.4 J	39 J	25 J						15
Methane, Ethene, Ethane (µg/l)																							
Methane	74-82-8			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130		NA	NA	0.32 J	NA	NA	69

NOTES:
CAS = Chemical Abstracts Service
MCL = Maximum contaminate level
NA = Not Analyzed
J = Estimated Value
µg/L = Micrograms per liter
NYSDOH- New York State Department of Health
Blank cells - No Criteria or Not Detected

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

Bold - Indicates Exceedances from NYSDOH MCLs
*Acetone and Methylene Chloride were detected in some samples but are considered lab contaminants

TABLE 4-2
GROUNDWATER ANALYTICAL DETECTIONS
SITE 6A-FUEL CALIBRATION AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	FC-MW04S (Jan-08)	FC-MW04S (Aug-08)	FC-MW04S (Sept-09)	FC-MW04S (Sept-10)	FC-MW04I (Jan-08)	FC-MW04I (Aug-08)	FC-MW04I (Sept-09)	FC-MW04I (DUP) (Sept-09)	FC-MW041 (Sept-10)	FC-MW05S (Jan-08)	FC-MW05S (Aug-08)	FC-MW05S (Sept-09)	FC-MW05S (DUP) (Sept-09)	FC-MW05S (Sept-10)	FC-MW05I (Jan-08)	FC-MW05I (Aug-08)	FC-MW05I (Sept-09)	FC-MW05I (Sept-10)	FC-MW06S (Jan-08)	FC-MW06S (Aug-08)
Volatile Organic Compounds (µg/l)																							
1,1,1-Trichloroethane	71-55-6	200	5											0.3 J									
1,1-Dichloroethane	75-34-3		5											4			0.89 J	0.5 J			0.50 J		
1,1-Dichloroethene	75-35-4	7	5																				
2-Butanone	78-93-3		50																				
Carbon disulfide	75-15-0		50																				
Chloroethane	75-00-3		5											**5**									
Chloromethane	74-87-3		5															0.8 J					
Benzene	71-43-2	5	5														0.84 J						
1,2-Dichlorobenzene	95-50-1	600	5														0.98 J						
1,2,4-Trichlorobenzene	120-82-1	70	5															0.71 J			0.71 J		
Ethylbenzene	100-41-4	700	5														**6.8 J**						
Isopropylbenzene	98-82-8		5														**8.2 J**						
Freon-113	76-13-1		50					0.4 J										1 J					
Methylcyclohexane	108-87-2		50																				
Tetrachloroethene	127-18-4	5	5																			**12**	0.9 J
Toluene	108-88-3	1000	5																				
Napthalene	91-20-3		50														37 J						
Methylene Chloride	75-09-2	5	5																				
m+p-xylenes	1330-20-7		5														2.0 J						
o-Xylene	95-47-6		5														0.40 J						
Xylenes (total)	1330-20-7	10,000	50														2.4 J						
Methane, Ethene, Ethane (µg/l)																							
Methane	74-82-8			NA	NA	4	NA	NA	NA	0.3 J	NA	NA	NA	NA		NA	240	NA	NA		0.40 J	NA	NA

NOTES:
CAS = Chemical Abstracts Service
MCL = Maximum contaminate level
NA = Not Analyzed
J = Estimated Value
µg/L = Micrograms per liter
NYSDOH- New York State Department of Health
Blank cells - No Criteria or Not Detected

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

Bold - Indicates Exceedances from NYSDOH MCLs
*Acetone and Methylene Chloride were detected in some samples but are considered lab contaminants

TABLE 4-2
GROUNDWATER ANALYTICAL DETECTIONS
SITE 6A-FUEL CALIBRATION AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	FC-MW06S (Sept-09)	FC-MW06S (Sept-10)	FC-MW07S (Jan-08)	FC-MW07S (Aug-08)	FC-MW07S (Sept-09)	FC-MW07S (Sept-10)	FC-MW07I (Sept-09)	FC-MW07I (Sept-10)	FC-MW08S (Jan-08)	FC-MW08S (Aug-08)	FC-MW08S (Sept-09)	FC-MW08S (Sept-10)
Volatile Organic Compounds (µg/l)															
1,1,1-Trichloroethane	71-55-6	200	5												
1,1-Dichloroethane	75-34-3		5												
1,1-Dichloroethene	75-35-4	7	5												
2-Butanone	78-93-3		50												
Carbon disulfide	75-15-0		50												
Chloroethane	75-00-3		5				1 J								
Chloromethane	74-87-3		5			0.6 J									
Benzene	71-43-2	5	5												
1,2-Dichlorobenzene	95-50-1	600	5												
1,2,4-Trichlorobenzene	120-82-1	70	5												
Ethylbenzene	100-41-4	700	5						1.4 J						
Isopropylbenzene	98-82-8		5						0.91 J						
Freon-113	76-13-1		50												
Methylcyclohexane	108-87-2		50												
Tetrachloroethene	127-18-4	5	5		2.5 J										
Toluene	108-88-3	1000	5												
Napthalene	91-20-3		50												
Methylene Chloride	75-09-2	5	5						16		17				12
m+p-xylenes	1330-20-7		5						1.5 J						
o-Xylene	95-47-6		5												
Xylenes (total)	1330-20-7	10,000	50						1.5 J						
Methane, Ethene, Ethane (µg/l)															
Methane	74-82-8			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
CAS = Chemical Abstracts Service
MCL = Maximum contaminate level
NA = Not Analyzed
J = Estimated Value
µg/L = Micrograms per liter
NYSDOH- New York State Department of Health
Blank cells - No Criteria or Not Detected

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

Bold - Indicates Exceedances from NYSDOH MCLs
*Acetone and Methylene Chloride were detected in some samples but are considered lab contaminants

TABLE 4-3
GROUNDWATER ANALYTICAL DETECTIONS
SITE 10B-ENGINE TEST HOUSE
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	ET-MW01S (Jan-08)	ET-MW01S (Aug-08)	ET-MW01S (Sept-09)	ET-MW01S (Sept-10)	ET-MW02S (Jan-08)	ET-MW02S (Aug-08)	ET-MW02S (Sept-09)	ET-MW02S (Sept-10)	ET-MW03S (Jan-08)	ET-MW03S (DUP) (Jan-08)	ET-MW03S (Aug-08)	ET-MW03S (Sept-09)	ET-MW03S (Sept-10)
Volatile Organic Compounds (µg/l)																
1,1,1-Trichloroethane	71-55-6	200	5					3 J	0.4 J		2.4 J					
Methylene chloride	75-09-2		5				1.4 J				1.4 J					1.1 J
Toluene	108-88-3	1,000	5				0.68 J				0.62 J					0.68 J
Isopropyl benzene	98-82-8		5				0.83 J									
Ethyl benzene	100-41-4	700	5				0.55 J									

NOTES:
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
J - Estimated Values
µg/L- micrograms per liter
NYSDOH - New York State Department of Health
Blank cells - No Criteria or Not Detected
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-MW126S (Jan-08)	SA-MW126S (Aug-08)	SA-MW126S (Sept-09)	SA-MW126S (Sept-10)	SA-MW126I (Jan-08)	SA-MW126I (Aug-08)	SA-MW126I (Sept-09)	SA-MW126I (Sept-10)	SA-MW126D (Jan-08)	SA-MW126D (Aug-08)	SA-MW126D (Sept-09)	SA-MW126D (Sept-10)	SA-MW127S (Jan-08)	SA-MW127S (DUP) (Jan-08)	SA-MW127S (Aug-08)	SA-MW127S (Sept-09)	SA-MW-127S (Sept-10)	SA-MW127I (Jan-08)
Volatile Organic Compounds (µg/l)																					
1,1,1-Trichloroethane	71-55-6	200	5	0.4 J																	**94**
1,1-Dichloroethane	75-34-3		5	1																	**410**
1,1-Dichloroethene	75-35-4	7	5																		**30**
1,2-Dichlorobenzene	95-50-1		5																		0.7 J
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5																		0.6 J
1,2,4-Trichlorobenzene	120-82-1	70	5																		2 J
1,3-Dichlorobenzene	541-73-1		5																		0.7 J
1,4-Dichlorobenzene	106-46-7	75	5																		3 J
2-Butanone	78-93-3		50																		
2-Hexanone	591-78-6		50																		
Acetone	67-64-1		50																		
Benzene	71-43-2	5	5																		0.9 J
Carbon disulfide	75-15-0		50									2 J									
Chlorobenzene	108-90-7	100	5																		0.5 J
Chloroethane	75-00-3		5																		**51**
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5																		
Isopropylbenzene	98-82-8		5																		
Toluene	108-88-3	1,000	5	0.5 J	1						0.58 J					2 J	2				
Vinyl Chloride	75-01-4	2	2																		
Methylene Chloride	75-09-2	5	5				14*				15*										
Naphthalene	91-20-3		50																		
Trichloroethene	79-01-6	5	5																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.39 J	NA
Ethane	74-84-0			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 J	ND	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK
PAGE 2 of 9

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	SA-MW127I (Aug-08)	SA-MW127I (Sept-09)	SA-MW127I (Sept-10)	SA-MW127I (DUP) (Sept-10)	SA-MW127D (Jan-08)	SA-MW127D (Aug-08)	SA-MW127D (Sept-09)	SA-MW127D (Sept-10)	SA-MW128S (Jan-08)	SA-MW128S (Aug-08)	SA-MW128S (Sept-09)	SA-MW128S (Sept-10)	SA-MW128I (Jan-08)	SA-MW128I (Aug-08)	SA-MW128I (Sept-09)	SA-MW128I (Sept-10)	SA-MW128D (Jan-08)	SA-MW128D (Aug-08)
Volatile Organic Compounds (µg/l)																					
1,1,1-Trichloroethane	71-55-6	200	5	**94**	**61**	1.2 J	1.1									**48**	**35**	2.4 J	1.1 J		
1,1-Dichloroethane	75-34-3		5	**470**	**270 J**	**9.1 J**	**9.3**	0.6 J								**160**	**170**	**33**	**10 J**	**5**	**7**
1,1-Dichloroethene	75-35-4	7	5	**27**	**20**											**18**	**12**	2.5 J			0.4 J
1,2-Dichlorobenzene	95-50-1		5	3																	
cis-1,2-Dichloroethene	156-59-2	70	5	0.3 J																	
1,2-Dichloroethane	107-06-2	5	5																		
1,2,4-Trichlorobenzene	120-82-1	70	5	4	2.7 J											1	1				
1,3-Dichlorobenzene	541-73-1		5	3																	
1,4-Dichlorobenzene	106-46-7	75	5	**13**	3.8 J											0.9 J	0.7 J				
2-Butanone	78-93-3		50																		
2-Hexanone	591-78-6		50																		
Acetone	67-64-1		50																		
Benzene	71-43-2	5	5	1																	
Carbon disulfide	75-15-0		50																		
Chlorobenzene	108-90-7	100	5	1																	
Chloroethane	75-00-3		5	**63**	**29**											**6**	**6**				
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5																	0.4 J	
Isopropylbenzene	98-82-8		5	1																	
Toluene	108-88-3	1,000	5				0.69 J												0.65 J		
Vinyl Chloride	75-01-4	2	2																		
Methylene Chloride	75-09-2	5	5				1.4 J												1.7 J		
Naphthalene	91-20-3		50																		
Trichloroethene	79-01-6	5	5																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8			NA	35	15	15	NA	NA	NA	0.97	NA	NA	2	NA	NA	NA	27	NA	NA	NA
Ethane	74-84-0			NA	ND	ND	ND	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK
PAGE 3 of 9

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-MW128D (Sept-09)	SA-MW128D (DUP) (Sept-09)	SA-MW128D (Sept-10)	SA-MW129S (Jan-08)	SA-MW129S (Aug-08)	SA-MW129S (DUP) (Aug-08)	SA-MW129S (Sept-09)	SA-MW129S (Sept-10)	SA-MW129I (Jan-08)	SA-MW129I (Aug-08)	SA-MW129I (Sept-09)	SA-MW129I (Sept-10)	SA-MW129D (Jan-08)	SA-MW129D (Aug-08)	SA-MW129D (Sept-09)	SA-MW129D (Sept-10)	SA-MW130S (Sept-09)	SA-MW130S (Sept-10)
Volatile Organic Compounds (µg/l)																					
1,1,1-Trichloroethane	71-55-6	200	5																		
1,1-Dichloroethane	75-34-3		5	2.9 J	3.1 J	1.6 J				1.4 J		2 J	4	2.3 J	1.4 J	0.9 J	3				
1,1-Dichloroethene	75-35-4	7	5													0.5 J	0.4 J				
1,2-Dichlorobenzene	95-50-1		5																		
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5																		
1,2,4-Trichlorobenzene	120-82-1	70	5																		
1,3-Dichlorobenzene	541-73-1		5																		
1,4-Dichlorobenzene	106-46-7	75	5																		
2-Butanone	78-93-3		50																		
2-Hexanone	591-78-6		50											6.9 J							
Acetone	67-64-1		50			2.8 J															
Benzene	71-43-2	5	5																		
Carbon disulfide	75-15-0		50																		
Chlorobenzene	108-90-7	100	5																		
Chloroethane	75-00-3		5													0.8 J					
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5																		
Isopropylbenzene	98-82-8		5																		
Toluene	108-88-3	1,000	5								0.69 J				0.61 J						
Vinyl Chloride	75-01-4	2	2																		
Methylene Chloride	75-09-2	5	5								3.2 J				2.8 J						
Naphthalene	91-20-3		50																		
Trichloroethene	79-01-6	5	5																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8			13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	NA
Ethane	74-84-0			ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-MW130I (Sept-09)	SA-MW130I (Sept-10)	SA-MW131S (Sept-09)	SA-MW131S (Sept-10)	SA-MW131I (Sept-09)	SA-MW131I (Sept-10)	SA-MW131D (Sept-09)	SA-MW131D (Sept-10)	SA-MW132S (Sept-09)	SA-MW132S (Sept-10)	SA-MW132I (Sept-09)	SA-MW132I (DUP) (Sept-09)	SA-MW132I (Sept-10)	SA-PZ118S (Jan-08)	SA-PZ118S (Aug-08)	SA-PZ118S (Sept-09)	SA-PZ118S (DUP) (Sept-09)	SA-PZ118S (Sept-10)
Volatile Organic Compounds (µg/l)																					
1,1,1-Trichloroethane	71-55-6	200	5		0.62 J				**18 J**												
1,1-Dichloroethane	75-34-3		5						**130 J**	**15**	**13 J**		1.1 J	**5.4**	**5.1**	3.4 J	4 J	**17**	2.5 J	2.1 J	
1,1-Dichloroethene	75-35-4	7	5						**13 J**	1.5 J	2.3 J				1.1 J		1 J	4			
1,2-Dichlorobenzene	95-50-1		5																		
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5																		
1,2,4-Trichlorobenzene	120-82-1	70	5																		
1,3-Dichlorobenzene	541-73-1		5																		
1,4-Dichlorobenzene	106-46-7	75	5																		
2-Butanone	78-93-3		50																		
2-Hexanone	591-78-6		50																		
Acetone	67-64-1		50								3.1 J										
Benzene	71-43-2	5	5																		
Carbon disulfide	75-15-0		50																		
Chlorobenzene	108-90-7	100	5																		
Chloroethane	75-00-3		5																		
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5									2.9 J									
Isopropylbenzene	98-82-8		5																		
Toluene	108-88-3	1,000	5										0.45 J								
Vinyl Chloride	75-01-4	2	2																		
Methylene Chloride	75-09-2	5	5																		
Naphthalene	91-20-3		50																		
Trichloroethene	79-01-6	5	5																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8			0.2 J	NA	7	4.2	4	54	12	29	7	NA	18	NA	NA	NA	NA	210 J	290 J	150
Ethane	74-84-0			ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-PZ118I (Jan-08)	SA-PZ118I (Aug-08)	SA-PZ118I (Sept-09)	SA-PZ118I (Sept-10)	SA-PZ120S (Jan-08)	SA-PZ120S (Aug-08)	SA-PZ120S (Sept-09)	SA-PZ120S (Sept-10)	SA-PZ122S (Jan-08)	SA-PZ122S (Aug-08)	SA-PZ122S (Sept-09)	SA-PZ122S (Sept-10)	SA-PZ122I (Jan-08)	SA-PZ122I (Aug-08)	SA-PZ122I (Sept-09)	SA-PZ122I (Sept-10)	SA-PZ122D (Jan-08)	SA-PZ122D (Aug-08)
Volatile Organic Compounds (µg/l)																					
1,1,1-Trichloroethane	71-55-6	200	5																		
1,1-Dichloroethane	75-34-3		5													1 J			**9.7**		2
1,1-Dichloroethene	75-35-4	7	5																1.2 J		
1,2-Dichlorobenzene	95-50-1		5																		
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5																		
1,2,4-Trichlorobenzene	120-82-1	70	5																		
1,3-Dichlorobenzene	541-73-1		5																		
1,4-Dichlorobenzene	106-46-7	75	5																		
2-Butanone	78-93-3		50																		
2-Hexanone	591-78-6		50																		
Acetone	67-64-1		50																		
Benzene	71-43-2	5	5																		
Carbon disulfide	75-15-0		50																		
Chlorobenzene	108-90-7	100	5																		
Chloroethane	75-00-3		5																		
Chloromethane	74-87-3		5		3																
Chloroform	67-66-3	80	5																		
Isopropylbenzene	98-82-8		5																		
Toluene	108-88-3	1,000	5								0.49 J				0.68 J				0.51 J		
Vinyl Chloride	75-01-4	2	2																		
Methylene Chloride	75-09-2	5	5																		
Naphthalene	91-20-3		50																		
Trichloroethene	79-01-6	5	5																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8			NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	74-84-0			NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-PZ122D (Sept-09)	SA-PZ122D (Sept-10)	SA-PZ123S (Jan-08)	SA-PZ123S (Aug-08)	SA-PZ123S (Sept-09)	SA-PZ123S (Sept-10)	SA-PZ123I1 (Jan-08)	SA-PZ123I1 (Aug-08)	SA-PZ123I1 (DUP) (Aug-08)	SA-PZ123I1 (Sept-09)	SA-PZ123I1 (Sept-10)	SA-PZ123I1 (DUP) (Sept-10)	SA-PZ123I (Jan-08)	SA-PZ123I (Aug-08)	SA-PZ123I (Sept-09)	SA-PZ123I (Sept-10)	SA-PZ124 (Aug-08)	SA-PZ124 (Sept-09)
Volatile Organic Compounds (µg/l)																					
1,1,1-Trichloroethane	71-55-6	200	5								2	2				1 J	1		0.59 J		
1,1-Dichloroethane	75-34-3		5	1.8 J	1.3 J		0.7 J			**23**	**13**	**13**	**6.3**			**55**	**63**	**54**	**42 J**	4	**17**
1,1-Dichloroethene	75-35-4	7	5							3 J	2	2				**7**	**10**	**6.9**	**6.9 J**		1.7 J
1,2-Dichlorobenzene	95-50-1		5																		
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5														0.3 J				
1,2,4-Trichlorobenzene	120-82-1	70	5							1 J	1	1 J				0.7 J			0.66 J		
1,3-Dichlorobenzene	541-73-1		5																		
1,4-Dichlorobenzene	106-46-7	75	5								0.5 J	0.5 J				0.6 J	0.6 J				
2-Butanone	78-93-3		50																		
2-Hexanone	591-78-6		50																		
Acetone	67-64-1		50																		
Benzene	71-43-2	5	5																		
Carbon disulfide	75-15-0		50																		
Chlorobenzene	108-90-7	100	5																		
Chloroethane	75-00-3		5													0.7 J					
Chloromethane	74-87-3		5								3	3									
Chloroform	67-66-3	80	5						1.3 J												
Isopropylbenzene	98-82-8		5																		
Toluene	108-88-3	1,000	5		0.39 J										0.45 J						
Vinyl Chloride	75-01-4	2	2														**3**				
Methylene Chloride	75-09-2	5	5																		
Naphthalene	91-20-3		50																		
Trichloroethene	79-01-6	5	5																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8			NA	NA	NA	NA	5 J	50	NA	NA	NA	20 J	1.8	1.8	NA	NA	32 J	18	NA	NA
Ethane	74-84-0			NA	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	ND	ND	NA	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-PZ124 (July-10)	SA-PZ124 (Sept-10)	SA-PZ125 (Aug-08)	SA-PZ125 (Sept-09)	SA-PZ125 (July-10)	SA-PZ-125 (DUP) (July-10)	SA-PZ-125 (Sept-10)	SA-PZ133I (Mar-10)	SA-PZ133I (July-10)	SA-PZ133I1 (Mar-10)	SA-PZ133I1 (DUP) (Mar-10)	SA-PZ134 (Mar-10)	SA-PZ135 (Mar-10)	SA-PZ136 (Mar-10)	SA-PZ137 (Mar-10)	SA-PZ138I (April-10)	SA-PZ138I (July-10)	SA-PZ138I (July-10) (DUP)	SA-PZ139I (April-10)
Volatile Organic Compounds (µg/l)																						
1,1,1-Trichloroethane	71-55-6	200	5								**120**	**24**	2 J		**5.3**	**70**				4.4 J	4.4 J	**35**
1,1-Dichloroethane	75-34-3		5	**15**	**22**						**460**	**130**	**26**	**23**	**31**	**260**	1.5 J		**8.7**	**20**	**20**	**160**
1,1-Dichloroethene	75-35-4	7	5	2.1 J	**5.2**						**41**	**7.8**	1.6 J	0.68 J	2.6 J	**22**				1.2 J	1 J	**11**
1,2-Dichlorobenzene	95-50-1		5								0.91 J		0.36 J	0.41 J	0.43 J	0.91 J						
cis-1,2-Dichloroethene	156-59-2	70	5																			
1,2-Dichloroethane	107-06-2	5	5																			
1,2,4-Trichlorobenzene	120-82-1	70	5								3 J	0.98 J	0.75 J	0.91 J	1.5 J							0.84 J
1,3-Dichlorobenzene	541-73-1		5								0.65 J	0.7 J			0.42 J							
1,4-Dichlorobenzene	106-46-7	75	5								2.2 J		1.2 J	1.3 J	1.3 J	0.38 J						0.41 J
2-Butanone	78-93-3		50																			
2-Hexanone	591-78-6		50																			
Acetone	67-64-1		50																			
Benzene	71-43-2	5	5								1.1 J					0.35 J						0.35 J
Carbon disulfide	75-15-0		50			0.5 J																
Chlorobenzene	108-90-7	100	5																			
Chloroethane	75-00-3		5								**67**	**9.6**	4.9 J			**15 J**					1.7 J	**22 J**
Chloromethane	74-87-3		5																			
Chloroform	67-66-3	80	5																			
Isopropylbenzene	98-82-8		5																			
Toluene	108-88-3	1,000	5																			
Vinyl Chloride	75-01-4	2	2																			
Methylene Chloride	75-09-2	5	5																			
Naphthalene	91-20-3		50												1.5 J							
Trichloroethene	79-01-6	5	5								0.32 J											
Methane, Ethene, Ethane (µg/l)																						
Methane	74-82-8			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	74-84-0			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-PZ139I (July-10)	SA-PZ140 (June-10)	SA-PZ140 (Sept-10)	SA-PZ140 (DUP) (Sept-10)	SA-PZ141 (June-10)	SA-PZ142 (June-10)	SA-PZ143 (June-10)	SA-PZ143 (Sept-10)	SA-PZ144I (June-10)	SA-PZ144S (June-10)	SA-PZ145S (June-10)	SA-PZ145S (Sept-10)	SA-PZ145I (June-10)	SA-PZ145I (Sept-10)	SA-PZ145I (DUP) (Sept-10)	SA-PZ145D (June-10)	SA-PZ145D (DUP) (June-10)	SA-PZ145D (Sept-10)	SA-PZ147 (July-10)
Volatile Organic Compounds (µg/l)																						
1,1,1-Trichloroethane	71-55-6	200	5	2.3 J	**17**	**9.0**	**10 J**		**60**	**110**	**110**					**8.7**	**6.1**	**5.9 J**				
1,1-Dichloroethane	75-34-3		5	**17**	**140**	**93**	**100 J**	2.8 J	**410**	**590**	**600**	3.7 J				**91**	**66**	**69 J**	**18**	**19**	**19**	
1,1-Dichloroethene	75-35-4	7	5	0.94 J	**8.5**	**6.7**	**7.8 J**		**21**	**39**	**52**					**8.2**	**8.4**	**8.7 J**	1.1 J	1 J	2.0 J	
1,2-Dichlorobenzene	95-50-1		5			0.64 J	0.47 J			1.6 J												
cis-1,2-Dichloroethene	156-59-2	70	5																			
1,2-Dichloroethane	107-06-2	5	5						0.55 J	0.83 J												
1,2,4-Trichlorobenzene	120-82-1	70	5			1.9 J	1.4 J				**7.1 J**						1.1 J	1.3 J				
1,3-Dichlorobenzene	541-73-1		5		1.2 J	0.62 J	0.50 J			0.69 J												
1,4-Dichlorobenzene	106-46-7	75	5		4.1 J	2.2 J	2.1 J		1.5 J	3.1 J												
2-Butanone	78-93-3		50		2.1 J																	
2-Hexanone	591-78-6		50																			
Acetone	67-64-1		50																			
Benzene	71-43-2	5	5						0.42 J	0.87 J												
Carbon disulfide	75-15-0		50																			
Chlorobenzene	108-90-7	100	5		0.58 J				0.34 J													
Chloroethane	75-00-3		5	1.8 J	**19**	**14**	**15 J**		**36**	**44**						**6.1**	4.5 J	4.1 J	0.99 J	0.83 J		
Chloromethane	74-87-3		5																			
Chloroform	67-66-3	80	5																			
Isopropylbenzene	98-82-8		5							0.90 J												
Toluene	108-88-3	1,000	5								2.3 J											
Vinyl Chloride	75-01-4	2	2		0.60 J				1.7 J	**2.4 J**						0.53 J						
Methylene Chloride	75-09-2	5	5		0.64 J					0.56 J												
Naphthalene	91-20-3		50																			
Trichloroethene	79-01-6	5	5																			
Methane, Ethene, Ethane (µg/l)																						
Methane	74-82-8			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.6	NA	5.6	5.6	NA	NA	0.47 J	NA
Ethane	74-84-0			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	NA	ND	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
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NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-4
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-PZ147 (Sept-10)	SA-PZ148 (July-10)	SA-PZ148 (Sept-10)	SA-PZ148 (DUP) (Sept-10)	SA-PZ166I (Sept-10)
Volatile Organic Compounds (µg/l)								
1,1,1-Trichloroethane	71-55-6	200	5					
1,1-Dichloroethane	75-34-3		5	4.4 J				
1,1-Dichloroethene	75-35-4	7	5					
1,2-Dichlorobenzene	95-50-1		5					
cis-1,2-Dichloroethene	156-59-2	70	5					
1,2-Dichloroethane	107-06-2	5	5					
1,2,4-Trichlorobenzene	120-82-1	70	5					
1,3-Dichlorobenzene	541-73-1		5					
1,4-Dichlorobenzene	106-46-7	75	5					
2-Butanone	78-93-3		50					
2-Hexanone	591-78-6		50					
Acetone	67-64-1		50					
Benzene	71-43-2	5	5					
Carbon disulfide	75-15-0		50					
Chlorobenzene	108-90-7	100	5					
Chloroethane	75-00-3		5					
Chloromethane	74-87-3		5					
Chloroform	67-66-3	80	5					
Isopropylbenzene	98-82-8		5					
Toluene	108-88-3	1,000	5					0.64 J
Vinyl Chloride	75-01-4	2	2					
Methylene Chloride	75-09-2	5	5					2.7 J
Naphthalene	91-20-3		50					
Trichloroethene	79-01-6	5	5					
Methane, Ethene, Ethane (µg/l)								
Methane	74-82-8			NA	NA	NA	NA	NA
Ethane	74-84-0			NA	NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
MW = Monitoring Well
PZ = Piezometer
ND = Not Detected
MCL = Maximum contaminat level
DUP = Duplicate
NA = Not Analyzed
NYSDOH = New York State Department of Health
J - Estmated Value
Blank cells - No criteria or not detected
CAS - Chemical Abstracts Service
MCL - Maximum contaminat level
Bold - Indicates Exceedances from NYSDOH MCLs
1- (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations,
2- (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1
blank contamination. Remaining detections of these compounds are also questionable and

TABLE 4-5
GROUNDWATER ANALYTICAL DETECTIONS TEMPORARY WELLS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW318-4650 (Mar-10)	SA-TW319-3842 (Mar-10)	SA-TW319-4549 (Mar-10)	SA-TW320-1115 (Mar-10)	SA-TW320-3034 (Mar-10)	SA-TW320-5155 (Mar-10)	SA-TW320-5155 (Mar-10) (DUP)	SA-TW321-1115 (Mar-10)	SA-TW321-3034 (Mar-10)	SA-TW321-4953 (Mar-10)	SA-TW322-1115 (Mar-10)	SA-TW322-2630 (Mar-10)	SA-TW322-3842 (Mar-10)	SA-TW322-4549 (Mar-10)	SA-TW322-4549 (Mar-10) (DUP)	SA-TW323-1418 (Mar-10)	SA-TW323-3034 (Mar-10)	SA-TW323-5256 (Mar-10)	SA-TW324-1216 (Mar-10)	SA-TW324-3034 (Mar-10)
Volatile Organic Compounds (µg/L)																							
1,1,1-Trichloroethane	71-55-6	200	5	0.32 J		**7.6**		**440**			0.51 J	0.45 J	0.48 J			**320**	**14**	**13 J**					
1,1-Dichloroethane	75-34-3	NE	5	0.95 J	**22**	**59**		**1200**	3.1 J	3.1 J	0.95 J	**6.9**	2.4 J		**24**	**1000**	**71**	**70**					
1,1-Dichloroethene	75-35-4	7	5		0.89 J	2.6 J		**86 J**							1.6 J	**90**	3.9 J	1.9 J					
1,2-Dichloroethane	107-06-2	5	5																				
Trichloroethene	79-01-6	5	5					0.70 J								0.64 J							
Tetrachloroethene	127-18-4	5	5																				
Vinyl Chloride	75-01-4	2	2																				
Chloroethane	75-00-3	NE	5					**270**								**140 J**	4.2 J						
cis-1,2-Dichloroethene	156-59-2	70	5																				
Chloromethane	74-87-3	NE	5																				
Benzene	71-43-2	5	5					2.2 J								2.2 J							
1,2-Dichlorobenzene	95-50-1	600	5					2.9 J								1.9 J							
1,3-Dichlorobenzene	541-73-1	NE	5																				
1,4-Dichlorobenzene	106-46-7	75	5					0.68 J								1.5 J	0.42 J						
1,2,4-Trichlorobenzene	120-82-1	70	5					0.69 J								2.7 J							
2-Butanone	78-93-3	NE	50																				
2-Hexanone	591-78-6	NE	50																				
Naphthalene	91-20-3	NE	50																				
Isopropyl Benzene	98-82-8	NE	5					**14**															
Ethyl Benzene	100-41-4	700	5																				
Chlorobenzene	108-90-7	100	5																				
Xylenes (total)	1330-20-7	10,000	50																				
Freon 113	76-13-1	NE	50						1.1 J	0.94 J													
Carbon Disulfide	75-15-0	NE	50																				
Toluene	108-88-3	1000	5																				
Chloroform	67-66-3	80	5							0.27 J									0.44 J				
Cyclohexane	110-82-7	NE	50																				
Methyl Cyclohexane	108-87-2	NE	50																				
Acetone	67-64-1	NE	50					9.3 J															
Methylene Chloride	75-09-2	5	5																				
Methyl tert-butyl ether	1634-04-4	NE	10																				

NOTES:
µg/L - micrograms per liter
MCL - Maximum contaminant level
NYSDOH - New York State Department of Health
CAS No. - Chemical Abstract Service number
NE - Not Established
DUP - Duplicate Sample
J - Estimated Value
Blank cells - No criteria or not detected
Bold - Indicates Exceedances from NYSDOH MCLs
[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary
[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

TABLE 4-5
GROUNDWATER ANALYTICAL DETECTIONS TEMPORARY WELLS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW324-4549 (Mar-10)	SA-TW325-1822 (June-10)	SA-TW325-3236 (June-10)	SA-TW325-5054 (June-10)	SA-TW326-1822 (June-10)	SA-TW326-3236 (June-10)	SA-TW326-4246 (June-10)	SA-TW327-1014 (June-10)	SA-TW327-2630 (June-10)	SA-TW327-4145 (June-10)	SA-TW327-4145 (June-10) (DUP)	SA-TW328-812 (June-10)	SA-TW328-2327 (June-10)	SA-TW328-3640 (June-10)	SA-TW329-1014 (June-10)	SA-TW329-2630 (June-10)	SA-TW329-4044 (June-10)	SA-TW330-1822 (Mar-10)	SA-TW330-3034 (Mar-10)	SA-TW330-5054 (Mar-10)
Volatile Organic Compounds (µg/L)																							
1,1,1-Trichloroethane	71-55-6	200	5							**44**			**67**	**68**		**19**	**28**		1.9 J	**170**			1.4 J
1,1-Dichloroethane	75-34-3	NE	5	0.55 J					**32**	**310**			**310**	**330**		**360**	**170**	**5.2**	**44**	**900**			
1,1-Dichloroethene	75-35-4	7	5						1.4 J	**15**			**19**	**17**		**19**	**12**		2.2 J	**69**			
1,2-Dichloroethane	107-06-2	5	5																				
Trichloroethene	79-01-6	5	5																	0.4 J			
Tetrachloroethene	127-18-4	5	5																				
Vinyl Chloride	75-01-4	2	2																				
Chloroethane	75-00-3	NE	5							**22**			**34**	**36**		**29**	**10**		4.9 J	**39 J**			
cis-1,2-Dichloroethene	156-59-2	70	5																				
Chloromethane	74-87-3	NE	5																				
Benzene	71-43-2	5	5							0.3 J			0.44 J	0.41 J		0.88 J				1.9 J			
1,2-Dichlorobenzene	95-50-1	600	5						1.1 J	0.36 J						1.4 J	0.4 J			0.94 J			
1,3-Dichlorobenzene	541-73-1	NE	5													0.89 J							
1,4-Dichlorobenzene	106-46-7	75	5			0.49 J			2.9 J	0.71 J			1.2 J	1.2 J		3.8 J	0.97 J			1 J			
1,2,4-Trichlorobenzene	120-82-1	70	5						2.1 J	1.8 J						0.81 J	1.2 J			1 J			
2-Butanone	78-93-3	NE	50																				
2-Hexanone	591-78-6	NE	50																				
Naphthalene	91-20-3	NE	50																	7.9			
Isopropyl Benzene	98-82-8	NE	5													1.7 J			0.29 J	1.3 J			
Ethyl Benzene	100-41-4	700	5																				
Chlorobenzene	108-90-7	100	5													0.54 J							
Xylenes (total)	1330-20-7	10,000	50																				
Freon 113	76-13-1	NE	50																				
Carbon Disulfide	75-15-0	NE	50	0.26 J																			
Toluene	108-88-3	1000	5																				
Chloroform	67-66-3	80	5																				
Cyclohexane	110-82-7	NE	50																				
Methyl Cyclohexane	108-87-2	NE	50																				
Acetone	67-64-1	NE	50			6.3 J																	
Methylene Chloride	75-09-2	5	5																				
Methyl tert-butyl ether	1634-04-4	NE	10																				

NOTES:
µg/L - micrograms per liter
MCL - Maximum contaminant level
NYSDOH - New York State Department of Health
CAS No. - Chemical Abstract Service number
NE - Not Established
DUP - Duplicate Sample
J - Estimated Value
Blank cells - No criteria or not detected
Bold - Indicates Exceedances from NYSDOH MCLs
[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drin
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[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR
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Principal Organic Contaminants, from the NYSDOH website at
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TABLE 4-5
GROUNDWATER ANALYTICAL DETECTIONS TEMPORARY WELLS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW330-1822 (Mar-10)	SA-TW330-3034 (Mar-10)	SA-TW330-5054 (Mar-10)	SA-TW331-1115 (June-10)	SA-TW331-2125 (June-10)	SA-TW331-2125 (June-10) (DUP)	SA-TW331-3135 (June-10)	SA-TW332-1115 (June-10)	SA-TW332-2125 (June-10)	SA-TW332-3135 (June-10)	SA-TW333-1115 (June-10)	SA-TW333-2125 (June-10)	SA-TW333-3135 (June-10)	SA-TW334-1115 (June-10)	SA-TW334-2125 (June-10)	SA-TW334-2125 (June-10) (DUP)	SA-TW334-3135 (June-10)	SA-TW335-1115 (June-10)	SA-TW335-2125 (June-10)	SA-TW335-3135 (June-10)
Volatile Organic Compounds (µg/L)																							
1,1,1-Trichloroethane	71-55-6	200	5			1.4 J							**9.9**		0.39 J	**250**						**70**	**570**
1,1-Dichloroethane	75-34-3	NE	5										**32**		3.1 J	**740**				0.84 J		**280**	**2100**
1,1-Dichloroethene	75-35-4	7	5										1.0 J			**43**						**16**	**110**
1,2-Dichloroethane	107-06-2	5	5																				
Trichloroethene	79-01-6	5	5																				
Tetrachloroethene	127-18-4	5	5					**190**	**190**														
Vinyl Chloride	75-01-4	2	2																			1.3 J	**8.1 J**
Chloroethane	75-00-3	NE	5										**11**		1.6 J	**240**						**76**	**470**
cis-1,2-Dichloroethene	156-59-2	70	5																				
Chloromethane	74-87-3	NE	5																				
Benzene	71-43-2	5	5													**2.2 J**						**1.3 J**	**7.2 J**
1,2-Dichlorobenzene	95-50-1	600	5										1.5 J		0.88 J	3.4 J						1.8 J	
1,3-Dichlorobenzene	541-73-1	NE	5																				
1,4-Dichlorobenzene	106-46-7	75	5																				
1,2,4-Trichlorobenzene	120-82-1	70	5																				
2-Butanone	78-93-3	NE	50																				
2-Hexanone	591-78-6	NE	50																				
Naphthalene	91-20-3	NE	50																				
Isopropyl Benzene	98-82-8	NE	5												1.7 J	**8.3 J**						5.2 J	**23 J**
Ethyl Benzene	100-41-4	700	5																				
Chlorobenzene	108-90-7	100	5																				
Xylenes (total)	1330-20-7	10,000	50																				
Freon 113	76-13-1	NE	50																				
Carbon Disulfide	75-15-0	NE	50				0.32 J																
Toluene	108-88-3	1000	5																				
Chloroform	67-66-3	80	5																				
Cyclohexane	110-82-7	NE	50																				
Methyl Cyclohexane	108-87-2	NE	50																				
Acetone	67-64-1	NE	50				2.8 J	2.8 J	2.6 J							13 J	2.1 J	1.9 J				2.2 J	5.1 J	24 J
Methylene Chloride	75-09-2	5	5																				
Methyl tert-butyl ether	1634-04-4	NE	10																				

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TABLE 4-5
GROUNDWATER ANALYTICAL DETECTIONS TEMPORARY WELLS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK
PAGE 4 of 7

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW335-4145 (June-10)	SA-TW335-4145 (June-10) (DUP)	SA-TW335-4145 (June-10) (DUP)	SA-TW336-1115 (June-10)	SA-TW336-2125 (June-10)	SA-TW336-3135 (June-10)	SA-TW337-1115 (June-10)	SA-TW337-2125 (June-10)	SA-TW337-3135 (June-10)	SA-TW338-1115 (June-10)	SA-TW338-2125 (June-10)	SA-TW338-2125 (June-10) (DUP)	SA-TW338-3135 (June-10)	SA-TW339-1115 (June-10)	SA-TW339-2125 (June-10)	SA-TW339-3135 (June-10)	SA-TW340-2125 (June-10)	SA-TW340-3135 (June-10)	SA-TW340-4145 (June-10)	SA-TW341-1115 (June-10)
Volatile Organic Compounds (µg/L)																							
1,1,1-Trichloroethane	71-55-6	200	5	0.6 J	0.59 J	0.59 J			**55**							**130**					**70 J**	0.99 J	
1,1-Dichloroethane	75-34-3	NE	5		1.3 J	1.3 J	1.2 J		**240**	1.4 J		1.2 J				**950**					**460 J**	3.1 J	
1,1-Dichloroethene	75-35-4	7	5						**15**							**37**					**21 J**	1.3 J	
1,2-Dichloroethane	107-06-2	5	5																		0.54 J		
Trichloroethene	79-01-6	5	5													0.34 J					0.43 J		
Tetrachloroethene	127-18-4	5	5																				
Vinyl Chloride	75-01-4	2	2						1.3 J														
Chloroethane	75-00-3	NE	5						**110**							**240**					**310 J**	**10 J**	
cis-1,2-Dichloroethene	156-59-2	70	5																				
Chloromethane	74-87-3	NE	5	0.52 J																			
Benzene	71-43-2	5	5						1 J							2.6 J					3.1 J	0.46 J	
1,2-Dichlorobenzene	95-50-1	600	5					0.71 J	1.9 J							1.8 J					2.1 J	0.66 J	
1,3-Dichlorobenzene	541-73-1	NE	5					0.51 J	1.5 J												2.1 J		
1,4-Dichlorobenzene	106-46-7	75	5					2.2 J	**6.4 J**				0.33 J			1.9 J					**8.8 J**		
1,2,4-Trichlorobenzene	120-82-1	70	5																		1.9 J	2.6 J	
2-Butanone	78-93-3	NE	50																				
2-Hexanone	591-78-6	NE	50																				
Naphthalene	91-20-3	NE	50												1.1 J						27 J		
Isopropyl Benzene	98-82-8	NE	5						**11**							4.5 J					**19 J**	2.7 J	
Ethyl Benzene	100-41-4	700	5																		**5.6 J**		
Chlorobenzene	108-90-7	100	5					0.42 J	0.8 J												1 J		
Xylenes (total)	1330-20-7	10,000	50																				
Freon 113	76-13-1	NE	50																				
Carbon Disulfide	75-15-0	NE	50														0.21 J						
Toluene	108-88-3	1000	5																				
Chloroform	67-66-3	80	5																				
Cyclohexane	110-82-7	NE	50													0.98 J							
Methyl Cyclohexane	108-87-2	NE	50																				
Acetone	67-64-1	NE	50					2.6 J	4.9 J														
Methylene Chloride	75-09-2	5	5																				
Methyl tert-butyl ether	1634-04-4	NE	10																			1.3 J	

NOTES:
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SOUTHERN AREA
NWIRP CALVERTON, NEW YORK
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Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW341-2125 (June-10)	SA-TW341-3135 (June-10)	SA-TW341-4145 (June-10)	SA-TW342-1115 (June-10)	SA-TW342-2125 (June-10)	SA-TW342-3135 (June-10)	SA-TW342-3135 (June-10) (DUP)	SA-TW342-4145 (June-10)	SA-TW343-1115 (June-10)	SA-TW343-2125 (June-10)	SA-TW343-3135 (June-10)	SA-TW343-4145 (June-10)	SA-TW344-1115 (June-10)	SA-TW344-2125 (June-10)	SA-TW344-3135 (June-10)	SA-TW344-4145 (June-10)	SA-TW345-4145 (June-10)	SA-TW346-1115 (Sept-10)	SA-TW346-2125 (Sept-10)	SA-TW346-3135 (Sept-10)
Volatile Organic Compounds (µg/L)																							
1,1,1-Trichloroethane	71-55-6	200	5										0.65 J	**120**	2.1 J			1.1 J					**15**
1,1-Dichloroethane	75-34-3	NE	5						2.5 J	2.5 J			**24**	**1400 J**	**14**					**5 J**		1.0 J	**38**
1,1-Dichloroethene	75-35-4	7	5										0.78 J	**60**									
1,2-Dichloroethane	107-06-2	5	5																				
Trichloroethene	79-01-6	5	5											1.3 J									
Tetrachloroethene	127-18-4	5	5		**38**																		
Vinyl Chloride	75-01-4	2	2											**3.8 J**									
Chloroethane	75-00-3	NE	5										**8.9**	**970 J**	4.1 J								
cis-1,2-Dichloroethene	156-59-2	70	5											1.1 J									
Chloromethane	74-87-3	NE	5																				
Benzene	71-43-2	5	5											3.8 J									
1,2-Dichlorobenzene	95-50-1	600	5						0.73 J	0.56 J				**6.1**			0.49 J						
1,3-Dichlorobenzene	541-73-1	NE	5																				
1,4-Dichlorobenzene	106-46-7	75	5						0.33 J					0.31 J			0.57 J						
1,2,4-Trichlorobenzene	120-82-1	70	5																				
2-Butanone	78-93-3	NE	50						1.9 J														
2-Hexanone	591-78-6	NE	50						2.6 J														
Naphthalene	91-20-3	NE	50											**98**									
Isopropyl Benzene	98-82-8	NE	5										0.67 J	**17**									
Ethyl Benzene	100-41-4	700	5										0.46 J	**19**									
Chlorobenzene	108-90-7	100	5																				
Xylenes (total)	1330-20-7	10,000	50											6.5						0.42 J			
Freon 113	76-13-1	NE	50																				
Carbon Disulfide	75-15-0	NE	50		0.16 J				0.16 J	0.19 J				0.17 J				0.16 J					
Toluene	108-88-3	1000	5																				
Chloroform	67-66-3	80	5						0.27 J														
Cyclohexane	110-82-7	NE	50											4.7 J									
Methyl Cyclohexane	108-87-2	NE	50											2.5 J									
Acetone	67-64-1	NE	50																				
Methylene Chloride	75-09-2	5	5																				
Methyl tert-butyl ether	1634-04-4	NE	10															0.28 J					

NOTES:
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TABLE 4-5
GROUNDWATER ANALYTICAL DETECTIONS TEMPORARY WELLS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW346-4145 (Sept-10)	SA-TW347-1115 (Sept-10)	SA-TW347-2125 (Sept-10)	SA-TW347-3135 (Sept-10)	SA-TW348-1115 (Sept-10)	SA-TW348-2125 (Sept-10)	SA-TW348-3135 (Sept-10)	SA-TW349-1115 (Sept-10)	SA-TW349-2125 (Sept-10)	SA-TW349-3135 (Sept-10)	SA-TW350-1115 (Sept-10)	SA-TW350-2125 (Sept-10)	SA-TW350-3135 (Sept-10)	SA-TW351-1115 (Sept-10)	SA-TW351-2125 (Sept-10)	SA-TW351-2125 (Sept-10) (DUP)	SA-TW351-3135 (Sept-10)	SA-TW351-4145 (Sept-10)	SA-TW352-1620 (Sept-10)	SA-TW352-2630 (Sept-10)
Volatile Organic Compounds (µg/L)																							
1,1,1-Trichloroethane	71-55-6	200	5				1.2 J		**550**			**830**	**1200**					0.92 J	1 J	1.1 J			
1,1-Dichloroethane	75-34-3	NE	5			1.3 J	0.70 J		**1500**	4.0 J	1.9 J	**1200**	**1300**										
1,1-Dichloroethene	75-35-4	7	5						**72**			**61**	**76**										
1,2-Dichloroethane	107-06-2	5	5																				
Trichloroethene	79-01-6	5	5									1.2 J	0.95 J										
Tetrachloroethene	127-18-4	5	5																				
Vinyl Chloride	75-01-4	2	2																				
Chloroethane	75-00-3	NE	5						**340**			**500**	**250**										
cis-1,2-Dichloroethene	156-59-2	70	5																				
Chloromethane	74-87-3	NE	5								0.45 J												
Benzene	71-43-2	5	5						**4.6 J**		**3.2 J**	**2.0 J**	**17**										
1,2-Dichlorobenzene	95-50-1	600	5						3.8 J			1.7 J	2.5 J										
1,3-Dichlorobenzene	541-73-1	NE	5																				
1,4-Dichlorobenzene	106-46-7	75	5																				
1,2,4-Trichlorobenzene	120-82-1	70	5																				
2-Butanone	78-93-3	NE	50																				
2-Hexanone	591-78-6	NE	50																				
Naphthalene	91-20-3	NE	50						**190**		**63**	**61**	**150**										
Isopropyl Benzene	98-82-8	NE	5					0.52 J	**35**		**15**	**6.3**	**17**	1.8 J									
Ethyl Benzene	100-41-4	700	5						**120**		**50**	3.3 J	**16**										
Chlorobenzene	108-90-7	100	5																				
Xylenes (total)	1330-20-7	10,000	50						**65**		**120**	1.3 J	17										
Freon 113	76-13-1	NE	50																				
Carbon Disulfide	75-15-0	NE	50																				
Toluene	108-88-3	1000	5																				
Chloroform	67-66-3	80	5																				
Cyclohexane	110-82-7	NE	50						5.6														
Methyl Cyclohexane	108-87-2	NE	50						7.1			2.0 J	2.4 J										
Acetone	67-64-1	NE	50							5.2 J		7.2 J	6.6 J							6.5 J			
Methylene Chloride	75-09-2	5	5																				
Methyl tert-butyl ether	1634-04-4	NE	10																				

NOTES:
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SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW352-3640 (Sept-10)	SA-TW353-1620 (Sept-10)	SA-TW353-2630 (Sept-10)	SA-TW353-3640 (Sept-10)	SA-TW354-1620 (Sept-10)	SA-TW354-2630 (Sept-10)	SA-TW354-3640 (Sept-10)	SA-TW355-1620 (Sept-10)	SA-TW355-2630 (Sept-10)	SA-TW355-3640 (Sept-10)	SA-TW356-1620 (Sept-10)	SA-TW356-2630 (Sept-10)	SA-TW356-3640 (Sept-10)	SA-TW357-1620 (Sept-10)	SA-TW357-2630 (Sept-10)	SA-TW357-3640 (Sept-10)
Volatile Organic Compounds (µg/L)																			
1,1,1-Trichloroethane	71-55-6	200	5																
1,1-Dichloroethane	75-34-3	NE	5	1.4 J			1.5 J			2.1 J			**5.7**			**33**			**38**
1,1-Dichloroethene	75-35-4	7	5													1.6 J			3.7 J
1,2-Dichloroethane	107-06-2	5	5																
Trichloroethene	79-01-6	5	5																
Tetrachloroethene	127-18-4	5	5																
Vinyl Chloride	75-01-4	2	2																
Chloroethane	75-00-3	NE	5																
cis-1,2-Dichloroethene	156-59-2	70	5																
Chloromethane	74-87-3	NE	5																
Benzene	71-43-2	5	5																
1,2-Dichlorobenzene	95-50-1	600	5																
1,3-Dichlorobenzene	541-73-1	NE	5																
1,4-Dichlorobenzene	106-46-7	75	5																
1,2,4-Trichlorobenzene	120-82-1	70	5							1.3 J						0.84 J			1.5 J
2-Butanone	78-93-3	NE	50																
2-Hexanone	591-78-6	NE	50																
Naphthalene	91-20-3	NE	50																
Isopropyl Benzene	98-82-8	NE	5																
Ethyl Benzene	100-41-4	700	5																
Chlorobenzene	108-90-7	100	5																
Xylenes (total)	1330-20-7	10,000	50																
Freon 113	76-13-1	NE	50																
Carbon Disulfide	75-15-0	NE	50																
Toluene	108-88-3	1000	5																
Chloroform	67-66-3	80	5																
Cyclohexane	110-82-7	NE	50																
Methyl Cyclohexane	108-87-2	NE	50																
Acetone	67-64-1	NE	50					5.7 J									4.1 J		4.8 J
Methylene Chloride	75-09-2	5	5																
Methyl tert-butyl ether	1634-04-4	NE	10																

NOTES:
µg/L - micrograms per liter
MCL - Maximum contaminant level
NYSDOH - New York State Department of Health
CAS No. - Chemical Abstract Service number
NE - Not Established
DUP - Duplicate Sample
J - Estimated Value
Blank cells - No criteria or not detected
Bold - Indicates Exceedances from NYSDOH MCLs
[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drin
website at http://www.epa.gov/safewater/contaminants/index.html#pri
[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR
Table 3-Organic Chemicals Maximum Contaminant Level Determinati
Principal Organic Contaminants, from the NYSDOH website at
http://www.health.state.ny.us/environmental/water/drinking/part5/subp

TABLE 4-6
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA PECONIC RIVER SURFACE WATER
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	NYSDEC SWQS (1)	ONL SWV (2)	SA-SW-124 (Aug-08)	SA-SW-124 (Mar-09)	SA-SW-124 (Sept-09)	SA-SW-124 (July-10)	SA-SW-124 (Sept-10)	SA-SW-124 (DUP) (Sept-10)	SA-SW-125 (Aug-08)	SA-SW-125 (Mar-09)	SA-SW-125 (Sept-09)	SA-SW-125 (July-10)	SA-SW-125 (Sept-10)	SA-SW-201 (Jan-08)	SA-SW-201 (Aug-08)	SA-SW-201 (Mar-09)	SA-SW-201 (Sept-09)	SA-SW-201 (July-10)	SA-SW-201 (DUP) (July-10)	SA-SW-201 (Sept-10)
Volatile Organic Compounds (µg/l)																					
1,1-Dichloroethane	75-34-3		47					0.46 J	0.56 J												
1,2,4-Trichlorobenzene	120-82-1	5	110		4.9 J																
Acetone	67-64-1								3.5 J												4.2 J
Toluene	108-88-3	6,000	9.8																		
Methylene Chloride	75-09-2																				

NOTES:

µg/L - micrograms per liter
MW - Monitoring Well
SD - Sediment
SW - Surface Water
MCL - Maximum contaminat level
J - Estmated Value
DUP - Duplicate
Blank cells - No criteria or not detected
NYSDEC- New York State Department of Environmental Cons
CAS - Chemical Abstracts Service
SWQS - Surface Water Quality Standards
ONL SWV - Oakridge National Laboratory Surface Water Values
Bold - Indicates Exceedances from NYSDEC SWQS

1- Peconic River is Class C Surface Water 6 NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Section 703.5, Table 1,Water Quality Standards and Surface Waters and Groundwater. http://www.dec.ny.gov/regs/4590.html

2-Oak Ridge National Laboratory (surface water) - Table 1 (secondary chronic values), Toxilogical Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision (Suter and Tsao, 1996). http://www.hsrd.ornl.gov/ecorisk/tm96r2.pdf

TABLE 4-6
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA PECONIC RIVER SURFACE WATER
NWIRP CALVERTON, NEW YORK
PAGE 2 of 2

Chemical	CAS No.	NYSDEC SWQS (1)	ONL SWV (2)	SA-SW-204 (Jan-08)	SA-SW-204 (Aug-08)	SA-SW-204 (DUP) (Aug-08)	SA-SW-204 (Mar-09)	SA-SW-204 (Sept-09)	SA-SW-204 (DUP) (Sept-09)	SA-SW-204 (July-10)	SA-SW-204 (Sept-10)
Volatile Organic Compounds (µg/l)											
1,1-Dichloroethane	75-34-3		47								
1,2,4-Trichlorobenzene	120-82-1	5	110								
Acetone	67-64-1										
Toluene	108-88-3	6,000	9.8								
Methylene Chloride	75-09-2										

NOTES:

µg/L - micrograms per liter
MW - Monitoring Well
SD - Sediment
SW - Surface Water
MCL - Maximum contaminat level
J - Estmated Value
DUP - Duplicate
Blank cells - No criteria or not detected
NYSDEC- New York State Department of Environmental Cons
CAS - Chemical Abstracts Servic
SWQS - Surface Water Quality Standards
ONL SWV - Oakridge National Laboratory Surface Water Values
Bold - Indicates Exceedances from NYSDEC SWQS

1- Peconic River is Class C Surface Water 6 NYCRR Part 703 Surface Water and Groundwater Standards and Groundwater Effluent Limitations, Section 703.5, Table 1,Water Quality Standard Surface Waters and Groundwater. http://www.dec.ny.gov/regs/4590.html

2-Oak Ridge National Laboratory (surface water) - Table 1 (secondary chronic values), Toxilogic Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 (Suter and Tsao, 1996). http://www.hsrd.ornl.gov/ecorisk/tm96r2.pdf

TABLE 4-7
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA PECONIC RIVER SEDIMENT
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	ORNL Sediment Values [1]	NYSDEC Unrestricted Soil Cleanup Objectives [2]	NYSDEC Ecological Soil Cleanup Objectives [2]	SA-SD-124 (Aug-08)	SA-SD-124 (Mar-09)	SA-SD-124 (Sept-09)	SA-SD-124 (July-10)	SA-SD-124 (Sept-10)	SA-SD-124 (DUP) (Sept-10)	SA-SD-125 (Aug-08)	SA-SD-125 (Mar-09)	SA-SD-125 (DUP) (Mar-09)	SA-SD-125 (Sept-09)	SA-SD-125 (DUP) (Sept-09)	SA-SD-125 (July-10)	SA-SD-125 (Sept-10)	SA-SD-201 (Mar-09)
Volatile Organic Compounds (µg/kg)																		
1,1-Dichloroethane	75-34-3	27	270	NS		7.5		8.8 J	7.6 J									
1,2,4-Trichlorobenzene	120-82-1	9,600						9.1 J	9.7 J									
1,4-Dichlorobenzene	106-46-7	340	1,800	20,000				4.1 J										
2-Butanone	78-93-3	270						63 J	23 J	6.1 J								
2-Hexanone	591-78-6	22												11 J				
*Acetone	67-64-1	8.7	50	2,200				**260 J**	**130 J**	46								
Carbon disulfide	75-15-0	0.85						**3.4 J**										
Toluene	108-88-3	780	700	36,000									39	2.5 J				
Naphthalene	91-20-3	240	12,000	NS										3.7 J				

NOTES:

MW - Monitoring Well

µg/kg - micrograms per kilogram SW - Surface Water SD - Sediment

MCL - Maximum contaminat level DUP - Duplicate J - Estmated Value

Blank cells - No criteria or not detected

NYSDEC- New York State Department of Environmental Conservation CAS - Chemical Abstracts Service

MCL - Maximum contaminat level

ONL - Oakridge National Laboratory

Bold - Indicates Exceedances of at least one of the following criteria:

1-Oak Ridge National Laboratory (sediment) - Table 3 (secondary chronic values), Toxilogical Benchmarks for Screening Potential Contaminants of Concern for Effects on Sediment-Associated Biota: 1997 Revision (Jones et al., 1997). Benchmarks are based on protection of ecological receptors in the sediment pore water.

2- NYSDEC, Subpart 375-6: Remedial Program Soil Cleanup Objectives, October 8, 2007. If two values are presented, the second value is based on 706.1, protection of benthic organisms. http://www.dec.ny.gov/regs/15507.html

*Acetone was detected in some samples but is considered a typical lab contaminant

TABLE 4-7
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA PECONIC RIVER SEDIMENT
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	ORNL Sediment Values [1]	NYSDEC Unrestricted Soil Cleanup Objectives [2]	NYSDEC Ecological Soil Cleanup Objectives [2]	SA-SD-201 (Sept-09)	SA-SD-201 (July-10)	SA-SD-201 (Sept-10)	SA-SD-204 (Aug-08)	SA-SD-204 (DUP) (Aug-08)	SA-SD-204 (Mar-09)	SA-SD-204 (Sept-09)	SA-SD-204 (DUP) (Sept-09)	SA-SD-204 (July-10)	SA-SD-204 (Sept-10)
Volatile Organic Compounds (µg/kg)														
1,1-Dichloroethane	75-34-3	27	270	NS										
1,2,4-Trichlorobenzene	120-82-1	9,600												
1,4-Dichlorobenzene	106-46-7	340	1,800	20,000										
2-Butanone	78-93-3	270									7.1 J			
2-Hexanone	591-78-6	22												
*Acetone	67-64-1	8.7	50	2,200										
Carbon disulfide	75-15-0	0.85												
Toluene	108-88-3	780	700	36,000										
Naphthalene	91-20-3	240	12,000	NS										

NOTES:

MW - Monitoring Well

µg/kg - micrograms per kilogram SW - Surface Water SD - Sediment

MCL - Maximum contaminat level DUP - Duplicate J - Estmated Value

Blank cells - No criteria or not detected

NYSDEC- New York State Department of Environmental Conservation CAS - Chemical Abstracts Service

MCL - Maximum contaminat level

ONL - Oakridge National Laboratory

Bold - Indicates Exceedances of at least one of the following criteria:

1-Oak Ridge National Laboratory (sediment) - Table 3 (secondary chronic values), Toxilogical Benchmarks for Scre Potential Contaminants of Concern for Effects on Sediment-Associated Biota: 1997 Revision (Jones et al., 1997). I are based on protection of ecological receptors in the sediment pore water.

2- NYSDEC, Subpart 375-6: Remedial Program Soil Cleanup Objectives, October 8, 2007. If two values are preser second value is based on 706.1, protection of benthic organisms. http://www.dec.ny.gov/regs/15507.html

*Acetone was detected in some samples but is considered a typical lab contaminant

TABLE 4-8
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PECONIC RIVER SPORTSMAN'S CLUB
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC01 (Jan-08)	CA-PRSC01 (Jun-08)	CA-PRSC01 (Aug-08)	CA-PRSC01 (Dec-08)	CA-PRSC01 (Mar-09)	CA-PRSC01 (Jun-09)	CA-PRSC01 (Sept-09)	CA-PRSC01 (Nov-09)	CA-PRSC01 (Feb-10)	CA-PRSC01 (Apr-10)	CA-PRSC01 (Jul-10)	CA-PRSC0201 (Jan-08)	CA-PRSC0201 DUP (Jan-08)	CA-PRSC0201 (Jun-08)	CA-PRSC0201 (Aug-08)	CA-PRSC0201 (Dec-08)	CA-PRSC0201 DUP (Dec-08)	CA-PRSC0201 (Mar-09)	CA-PRSC0201 (Jun-09)	CA-PRSC0201 DUP (Jun-09)
Volatile Organic Compounds (µg/L)																							
1,1-Dichloroethane	75-34-3		5												**12**	**12**	**7**	**13**	**12**	**12**	**12**	**12**	**12**
1,1-Dichloroethene	75-35-4	7	5													5 J	4	4	5	5	3.3 J	3.6 J	3.5 J
1,2-Dichloroethane	107-06-2	5	5												0.5 J	0.6 J	0.6 J		0.4 J	0.4 J			
1,4-Dichlorobenzene	106-46-7	75	5																				
Chloromethane	74-87-3		5																				
cis-1,2-Dichloroethene	156-59-2	70	5												2 J	1 J	2	1 J	1	1		1.3 J	1.3 J
Isopropylbenzene	98-82-8		5																				
Methyl tert-butyl ether	1634-04-4		10																				
Trichloroethene	79-01-6	5	5												0.8 J	0.8 J	0.7 J	0.6 J	0.9 J	0.9 J			
Vinyl Chloride	75-01-4	2	2														1 J						
Benzene	71-43-2	5	5																0.3 J	0.3 J			
Napthalene	91-20-3		50						3.4 J														
Toluene	108-88-3	1,000	5																				
1,2,4-Trichlorobenzene	120-82-1	70	5																				

NOTES:
µg/L = micrograms per liter
CAS = Chemical Abstracts Service
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
J = Estimated Value
Blank cells = No criteria or not detected
Bolded values are detections above criteria

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

*Acetone and Methylene Chloride was detected in some samples but is considered a typical lab contaminant

TABLE 4-8
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PECONIC RIVER SPORTSMAN'S CLUB
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC0201 (Sept-09)	CA-PRSC0201 (Nov-09)	CA-PRSC0201 (Feb-10)	CA-PRSC0201 (Apr-10)	CA-PRSC0201 (Jul-10)	CA-PRSC0202 (Jan-08)	CA-PRSC0202 (Jun-08)	CA-PRSC0202 (Aug-08)	CA-PRSC0202 (Dec-08)	CA-PRSC0202 (Mar-09)	CA-PRSC0202 (Jun-09)	CA-PRSC0202 (Sept-09)	CA-PRSC0202 (Nov-09)	CA-PRSC0202 (Feb-10)	CA-PRSC0202 (Apr-10)	CA-PRSC0202 (Jul-10)	CA-PRSC0203 (Jan-08)	CA-PRSC0203 (Jun-08)	CA-PRSC0203 DUP (Jun-08)
Volatile Organic Compounds (µg/L)																						
1,1-Dichloroethane	75-34-3		5	**11**	**9.3**	**12**	**9.9**	**11**				0.4 J		1.1 J	1.2 J		2.1 J	2.4 J				
1,1-Dichloroethene	75-35-4	7	5	**6**	4.4 J	**5.4**	3.4 J	3.5 J														
1,2-Dichloroethane	107-06-2	5	5				0.42 J				0.8 J											
1,4-Dichlorobenzene	106-46-7	75	5																			
Chloromethane	74-87-3		5																	0.8 J		
cis-1,2-Dichloroethene	156-59-2	70	5		1.4 J	1.2 J	1.2 J	1.3 J														
Isopropylbenzene	98-82-8		5						2 J		1	0.6 J						0.47 J				0.4 J
Methyl tert-butyl ether	1634-04-4		10																	0.7 J		
Trichloroethene	79-01-6	5	5				0.64 J	0.75 J														
Vinyl Chloride	75-01-4	2	2																			
Benzene	71-43-2	5	5				0.28 J															
Napthalene	91-20-3		50		2.4 J																	
Toluene	108-88-3	1,000	5			1.2 J																
1,2,4-Trichlorobenzene	120-82-1	70	5					0.53 J														

NOTES:
µg/L = micrograms per liter
CAS = Chemical Abstracts Service
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
J = Estimated Value
Blank cells = No criteria or not detected
Bolded values are detections above criteria

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

*Acetone and Methylene Chloride was detected in some samples but is considered a typical lab contaminant

TABLE 4-8
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PECONIC RIVER SPORTSMAN'S CLUB
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC0203 (Aug-08)	CA-PRSC0203 (Dec-08)	CA-PRSC0203 (Mar-09)	CA-PRSC0203 (Jun-09)	CA-PRSC0203 (Sept-09)	CA-PRSC0203 (Nov-09)	CA-PRSC0203 (Feb-10)	CA-PRSC0203 (Apr-10)	CA-PRSC0203 (Jul-10)	CA-PRSC03 (Jan-08)	CA-PRSC03 (Jun-08)	CA-PRSC03 (Aug-08)	CA-PRSC03 (Dec-08)	CA-PRSC03 (Mar-09)	CA-PRSC03 DUP (Mar-09)	CA-PRSC03 (Jun-09)	CA-PRSC03 (Sept-09)	CA-PRSC03 DUP (Sept-09)	CA-PRSC03 (Nov-09)	CA-PRSC03 DUP (Nov-09)
Volatile Organic Compounds (µg/L)																								
1,1-Dichloroethane	75-34-3		5																					
1,1-Dichloroethene	75-35-4	7	5																					
1,2-Dichloroethane	107-06-2	5	5																					
1,4-Dichlorobenzene	106-46-7	75	5																					
Chloromethane	74-87-3		5																					
cis-1,2-Dichloroethene	156-59-2	70	5																					
Isopropylbenzene	98-82-8		5	1								0.32 J												
Methyl tert-butyl ether	1634-04-4		10																					
Trichloroethene	79-01-6	5	5																					
Vinyl Chloride	75-01-4	2	2																					
Benzene	71-43-2	5	5																					
Napthalene	91-20-3		50																					
Toluene	108-88-3	1,000	5																					
1,2,4-Trichlorobenzene	120-82-1	70	5																					

NOTES:
µg/L = micrograms per liter
CAS = Chemical Abstracts Service
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
J = Estimated Value
Blank cells = No criteria or not detected
Bolded values are detections above criteria

[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

*Acetone and Methylene Chloride was detected in some samples but is considered a typical lab contaminant

TABLE 4-8
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PECONIC RIVER SPORTSMAN'S CLUB
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC03 (Feb-10)	CA-PRSC03 DUP (Feb-10)	CA-PRSC03 (Apr-10)	CA-PRSC03 DUP (Apr-10)	CA-PRSC03 (Jul-10)	CA-PRSC03 DUP (Jul-10)	CA-PRSC04 (Jan-08)	CA-PRSC04 (Jun-08)	CA-PRSC04 (Aug-08)	CA-PRSC04 (Dec-08)	CA-PRSC04 (Mar-09)	CA-PRSC04 (Jun-09)	CA-PRSC04 (Sept-09)	CA-PRSC04 (Nov-09)	CA-PRSC04 (Feb-10)	CA-PRSC04 (Apr-10)	CA-PRSC04 (Jul-10)
Volatile Organic Compounds (µg/L)																				
1,1-Dichloroethane	75-34-3		5																	
1,1-Dichloroethene	75-35-4	7	5																	
1,2-Dichloroethane	107-06-2	5	5																	
1,4-Dichlorobenzene	106-46-7	75	5				0.3 J													
Chloromethane	74-87-3		5																	
cis-1,2-Dichloroethene	156-59-2	70	5																	
Isopropylbenzene	98-82-8		5																	
Methyl tert-butyl ether	1634-04-4		10																	
Trichloroethene	79-01-6	5	5																	
Vinyl Chloride	75-01-4	2	2																	
Benzene	71-43-2	5	5																	
Napthalene	91-20-3		50																	
Toluene	108-88-3	1,000	5																	
1,2,4-Trichlorobenzene	120-82-1	70	5																	

NOTES:
µg/L = micrograms per liter
CAS = Chemical Abstracts Service
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
J = Estimated Value
Blank cells = No criteria or not detected
Bolded values are detections above criteria

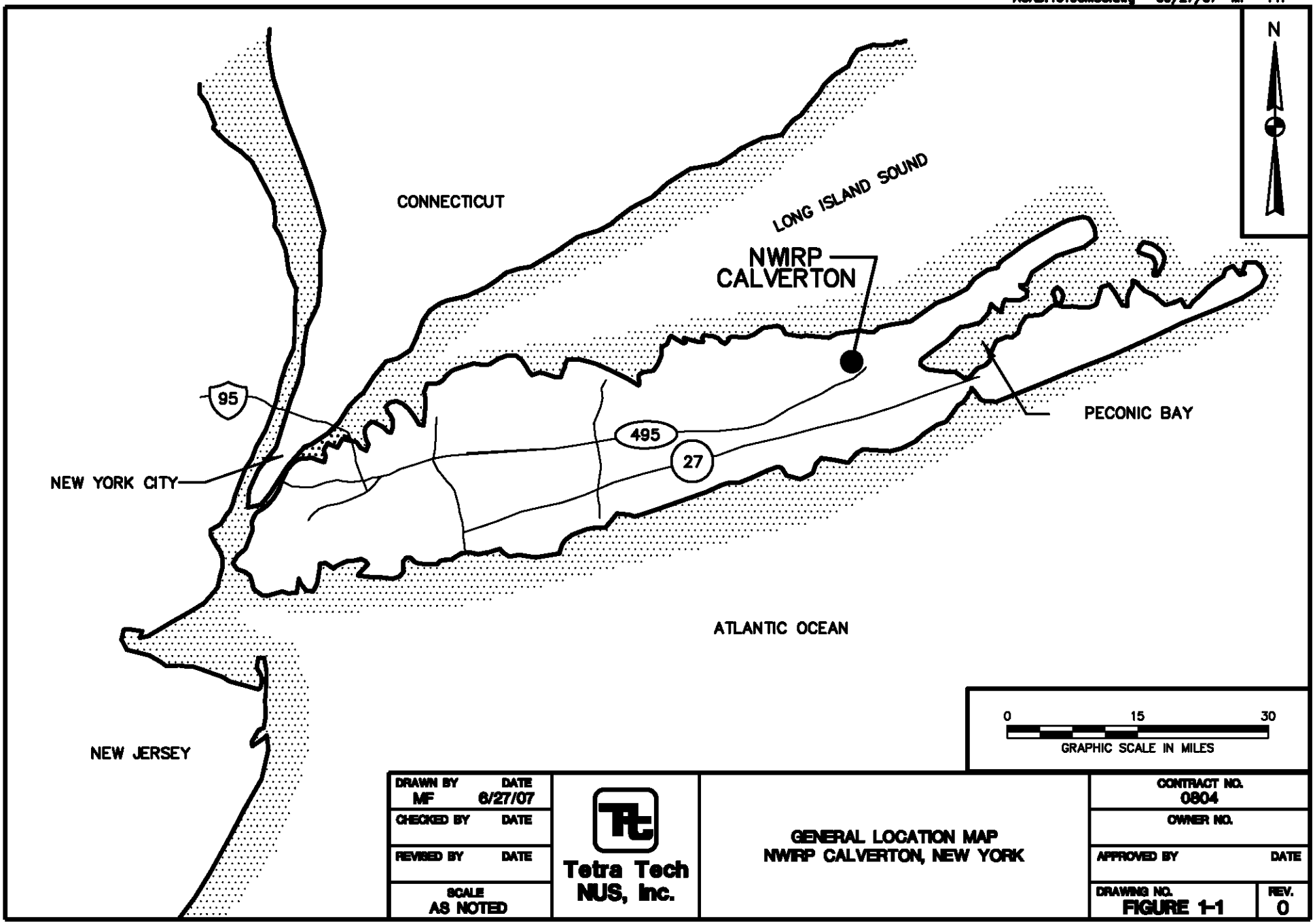
[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[2] (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm

*Acetone and Methylene Chloride was detected in some samples but is considered a typical lab contaminant

FIGURES

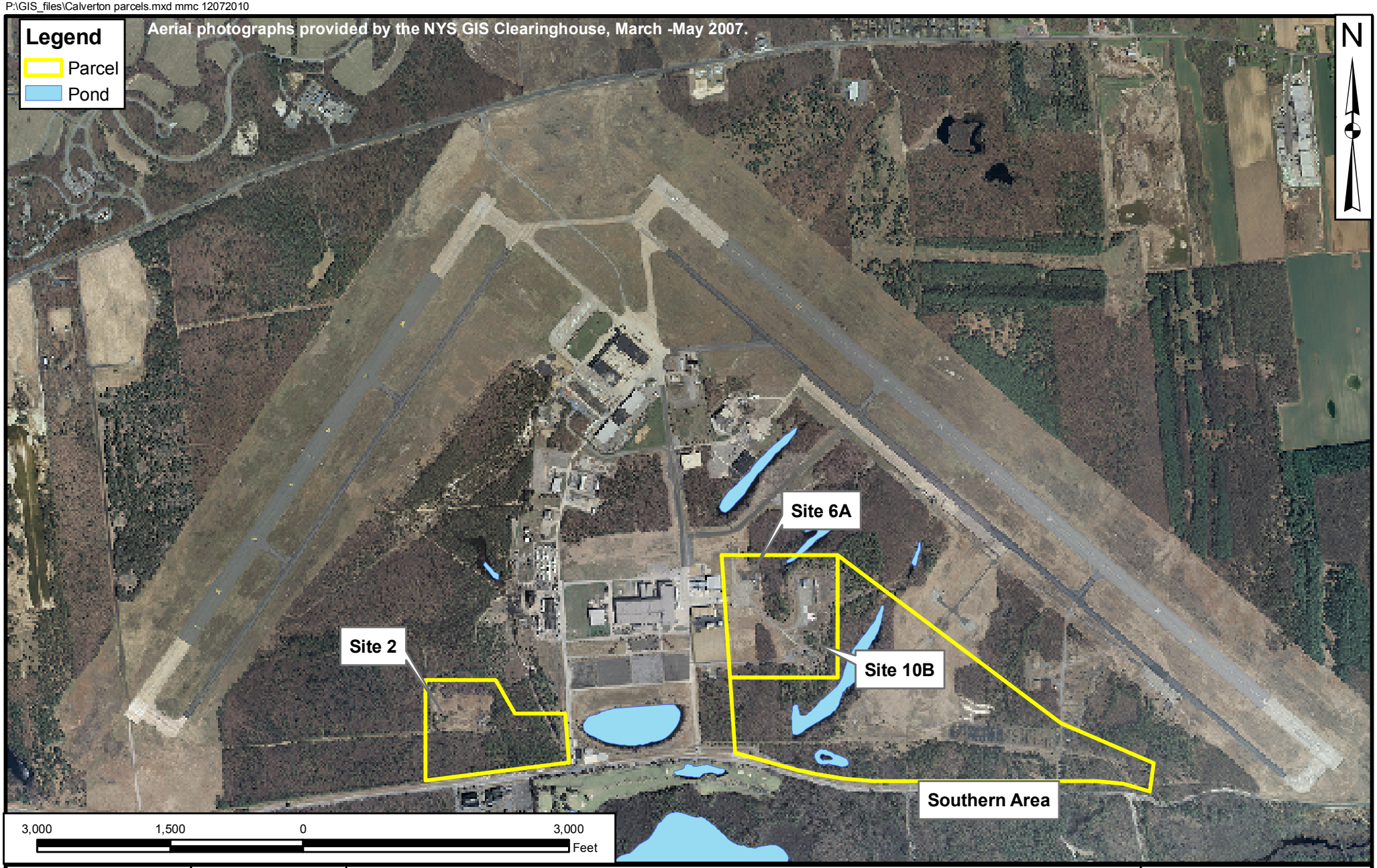
ACAD:1610CM30.dwg 06/27/07 MF PIT



DRAWN BY MF DATE 6/27/07	Tetra Tech NUS, Inc.	GENERAL LOCATION MAP NWIRP CALVERTON, NEW YORK	CONTRACT NO. 0804
CHECKED BY DATE			OWNER NO.
REVISED BY DATE			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-1 REV. 0

FORM CADD NO. TTNUS-AH.DWG - REV 1 -9/10/98

P:\GIS_files\Calverton parcels.mxd mmc 12072010



DRAWN BY M. CUSHING	DATE 12/7/10	TETRA TECH	CONTRACT NUMBER 112G01655
CHECKED BY ___	DATE ___	**SITE LOCATION MAP**	APPROVED BY ___ DATE ___
REVISED BY ___	DATE ___	**NWIRP Calverton, New York**	APPROVED BY ___ DATE ___
SCALE AS NOTED			FIGURE NO. 1-2 REV 0

P:GIS Files/Calverton/MapDocs/MXD/DSR_2010 LOCMAP_100610.mxd map created 120810 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

New Fuel Calibration Pad

Site 6A Fuel Calibration Area

Old Fuel Calibration Pad

Site 10B Engine Test House

On-Site Southern Area

Unnamed Stream

Swan Pond Rd

Peconic Fld

River Rd

Site 2 Fire Training Area

Off-Site Southern Area

Peconic River

Peconic River Sportsmens Club

4WD Trail

Driveway

N

Legend

FENCE LINE

ROADS

PROPERTY LINE

Water

0 250 500 1,000 Feet

SCALE IN FEET

TETRA TECH NUS, INC

SITE LAYOUT
SITE 2, SITE 6A, SITE 10B,
AND SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	2-1	REV	DATE 12/08/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR SA_planview_11182010.mxd map created 12082010MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

A

A'

FCMW01S,I
FCMW08S
FCMW03S
FCMW04S,I
FCMW02S,I
SATW351
SATW350
FCMW07S,I
SATW324
SATW323
SATW349
SATW347
SATW346
SATW330
FCMW06S
SATW348
FCMW05S,I
SATW303
SATW344
ETMW03S
SATW343
SATW342
ETMW02S
SATW302
SATW309
SATW341
ETMW01S
SATW340
SATW333
SATW306
SAMW130S
SAMW130I
SATW332
SATW331
SATW336
SATW335
SATW301
SATW339
SATW308
SATW334
SATW305
SATW338
SATW321
SATW337
SATW307
SATW320
SATW313
SATW304
SATW311
SATW317
SATW310
SAPZ138I
SAPZ139I
SATW318
SATW322
SATW319
SAMW127S,I,D
SATW352
SATW354
SATW356
SATW357
SAMW126S,I,D
SATW312
SATW314
SATW353
SATW355
SAMW129S
SAMW129I
SAPZ137
SAPZ134
SATW315
SAMW128S,I,D
SATW316
SAMW129D
SAPZ136
SAPZ120S
SAPZ135
SATW327
SAPZ140
SAPZ145S,I,D
SAPZ133I,I1
SAPZ141
SATW328
SATW325
SATW345
SAPZ122S
SAPZ122I
SAPZ122D
SAPZ125
SAPZ142
SAPZ144S,I
SATW326
SAMW131S,I,D
SAPZ123S
SAPZ123I
SAPZ123I1
SAPZ148
SAPZ124
SAPZ143
SATW329
SAPZ166I
CAPRSC03
CAPRSC04
CAPRSC02
SAMW132S
SAMW132I
SAPZ118S
SAPZ147
SAPZ118I
SAPZ118D
STAFF GUAGE 02 ES P
STAFF GUAGE 01 WS P
SASD201
SASW201
CAPRSC01

Legend

- Temporary Wells
- Piezometer
- New Piezometer
- Monitoring Well
- Staff Gauge
- Supply Well

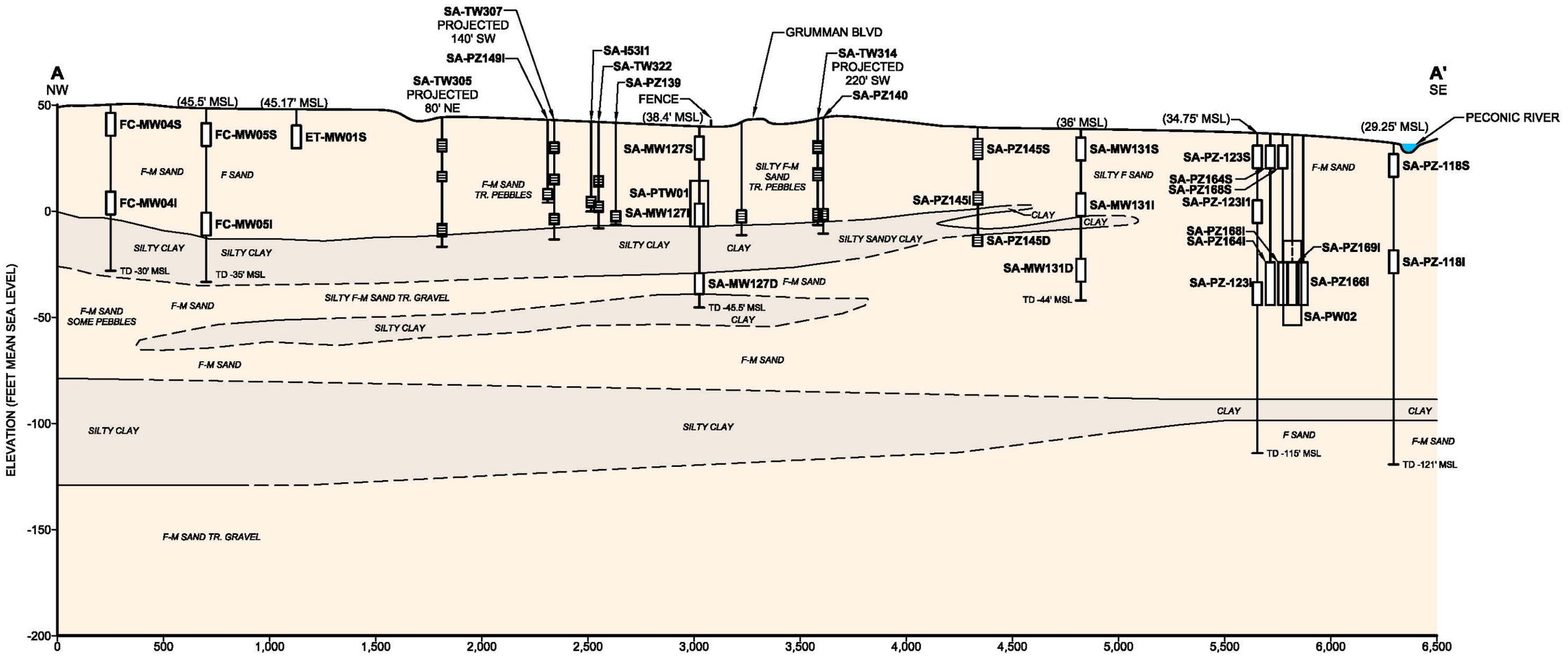
0 250 500 1,000 Feet

TETRA TECH NUS, INC

PLAN VIEW MAP
GEOLOGIC CROSS SECTION A-A'
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	2-2	REV	DATE 12/8/10

112G01655\0510\112G01655GX03-1.DWG 12/08/10 MKB



LEGEND

- (45.5' MSL) GROUND SURFACE ELEVATION (FEET MEAN SEA LEVEL)
- GROUND SURFACE
- F SAND — LITHOLOGY
- SA-MW131S — MONITORING WELL SCREEN
- TEMPORARY WELL SCREEN
- CONFINING UNIT
- TD -35' MSL — TOTAL DEPTH (FEET MEAN SEA LEVEL)

0 500 1,000

SCALE IN FEET
10x VERTICAL EXAGGERATION

TETRA TECH NUS, INC.

GEOLOGIC CROSS-SECTION A – A'
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
CALVERTON, NEW YORK

FILE	SCALE
112G01655GX03-1	AS NOTED
FIGURE NUMBER: FIGURE 2-3	REV: 0 — DATE: 12/08/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR Site2_shallow_111110.mxd map created 122110 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

41.5

41

40.5

41.69
FTMW01I
FTMW01S

41.10
FTMW04

FTMW03S
41.69

FTMW02I
FTMW02S
40.99

40.43
FTMW05S
FTMW05I

39.93
FTMW08S
FTMW08I

FTMW06I
FTMW06S
41.24

41.02
FTMW07S

Legend

- Monitoring Wells
- Fence Line
- Property Line
- Groundwater Contours (Feet MSL)
- 34.9 Groundwater Elevation (Feet MSL)

Notes:
Dashed lines are inferred
MSL-mean sea level

0 75 150 300
Feet

SCALE IN FEET

TETRA TECH NUS, INC

POTENTIOMETRIC MAP FOR SHALLOW WELLS
SEPTEMBER 22, 2010
SITE 2 - FIRE TRAINING AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	2-4	REV	DATE 12/21/10

P:GIS Files/Calverton/MapDocs/MXD/DSR_2010/6A_SA_shallowcont_APRIL2010.mxd 12082010

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

42.71 FCMW01S FCMW01I
FCMW08S
FCMW03S
FCMW04S 42.15 FCMW04I
FCMW02S FCMW02I
FCMW07S
41.81 FCMW07I
41.73 FCMW06S
41.24 FCMW05I FCMW05S
40.23 ETMW03S
40.11 ETMW02S
40.23 ETMW01S
38.91 SAMW130S SAMW130I
SAPZ139
SAPZ133I&I1
35.98 SAMW126S SAMW126I SAMW126D
SAPZ137
SAPZ136
SAPZ135
35.71 SAMW127S SAMW127I SAMW127D
SAPZ134
34.36 SAMW128S SAMW128I SAMW128D
32.67 SAMW129S SAMW129I SAMW129D
27.53 SAPZ120S
30.55 SAPZ122S SAPZ122I SAPZ122D
SAPZ125
28.76 SAPZ123S SAPZ123I SAPZ123II
SAPZ148
SAPZ124
SAPZ144S SAPZ144I
35.84 SAPZ146
31.1 SAMW131S SAMW131I SAMW131D
SAMW132I SAMW132S 32.70
STAFF GAUGE 01 31.17
STAFF GAUGE 02 31.08
SAPZ147
SAPZ118S 27.25 SAPZ118I
BM ES CONN AVE 26.98

41 40 39 38 37 36 35 34 33 32 31 30 29 28

Legend

- Piezometer
- New Piezometer
- Monitoring Well
- Staff Gauge
- Benchmark
- Groundwater Contours (Feet MSL)
- 34.9 Groundwater Elevation (Feet MSL)

Notes:
Dashed lines are inferred
MSL-mean sea level

0 500 1,000
SCALE IN FEET

TETRA TECH NUS, INC

PONTENTIOMETRIC MAP FOR SHALLOW WELLS
APRIL 7, 2010
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	**2-5**	REV	DATE 11/11/10

P:\GIS Files\Calverton\MapDocs\MXD\DSR_2010\6A_SA_shallowcont_SEPT2010.mxd 122110

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

38.84
FCMW01S
FCMW01I
39.27
FCMW08S
FCMW04S
FCMW04I
38.21
FCMW03S
FCMW02S
FCMW02I
38.00
FCMW07S
FCMW07I
FCMW06S
38.27
FCMW05I
FCMW05S
37.63
36.90
ETMW03S
36.87
ETMW02S
ETMW01S
36.98
34.90
SAMW130S
SAMW130I
SAPZ138I
SAPZ139
SAPZ133I1
SAPZ137
SAPZ136
SAPZ134
34.24
SAMW126S
SAMW126I
SAMW126D
SAPZ135
33.13
SAMW127S
SAMW127I
SAMW127D
SAPZ140
SAPZ141
SAPZ142
SAPZ144S
SAPZ144I
32.07
SAPZ146
34.52
SAPZ143
31.12
SAMW128S
SAMW128I
SAMW128D
30.78
SAPZ145S
SAPZ145I
SAPZ145D
29.51
SAMW129S
SAMW129I
SAMW129D
28.61
SAPZ122S
SAPZ122I
SAPZ122D
27.51
SAPZ123S
SAPZ123I
SAPZ123I1
SAMW131S
SAMW131I
SAMW131D
SAPZ120S
25.77
SAPZ125
SAPZ148
26.42
SAPZ166I
SAPZ124
SAPZ147
30.50
SAMW132I
SAMW132S
STAFF GAUGE 01
30.57
STAFF GAUGE 02
30.48
SAPZ118S 25.80
SAPZ118I
BM ES CONN AVE
24.90

35 36 37 38 34 33 32 31 30 29 28 27 26 25

Legend

- Piezometer
- New Piezometer
- Monitoring Well
- Staff Gauge
- Benchmark
- Groundwater Contours (Feet MSL)
- 34.9 Groundwater Elevation (Feet MSL)

Notes:
Dashed lines are inferred
MSL-mean sea level

0 500 1,000 Feet

SCALE IN FEET

TETRA TECH NUS, INC

PONTENTIOMETRIC MAP FOR SHALLOW WELLS
SEPTEMBER 2010
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	2-6	REV	DATE 12/21/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR SA_TW_locmap_100610.mxd map created 120810 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

SATW351
SATW350
SATW349
SATW347
SATW346
SATW348
SATW324
SATW323
SATW330
SATW303
SATW344
SATW343
SATW302
SATW309
SATW342
SATW341
SATW340
SATW333
SATW332
SATW331
SATW336
SATW335
SATW301
SATW334
SATW306
SATW339
SATW305
SATW338
SATW337
SATW321
SATW308
SATW307
SATW320
SATW304
SATW311
SATW310
SATW313
SATW317
SATW318
SATW322
SATW319
SATW353
SATW355
SATW357
SATW352
SATW354
SATW356
SATW312
SATW314
SATW316
SATW315
SATW327
SATW328
SATW325
SATW345
SATW326
SATW329

Legend

Temporary Wells

0 125 250 500 Feet

SCALE IN FEET

TETRA TECH NUS, INC

2009-2010
TEMPORARY WELL LOCATION MAP
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	3-1	REV / DATE	12/8/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR SA_locmap_100610.mxd map created 120810 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

SAMW130S
SAMW130I

SAPZ138I
SAPZ139I
SAMW127S
SAMW127I
SAMW127D
SAMW126S
SAMW126I
SAMW126D
SAPZ134
SAPZ137
SAPZ136
SAPZ135
SAPZ133I
SAPZ133I1
SAPZ144S
SAPZ144I
SAPZ140
SAPZ141
SAPZ142
SAPZ143
SAPZ145S
SAPZ145I
SAPZ145D
SAMW128S
SAMW128I
SAMW128D
SAMW129S
SAMW129I
SAMW129D
SAPZ120S
SAPZ122S
SAPZ122I
SAPZ122D
SASW204
SASD204
SAPZ125
SASW125
SASD125
SAMW131S
SAMW131I
SAMW131D
SAPZ123S
SAPZ123I
SAPZ123I1
SAPZ148
SAPZ124
SASW124
SASD124
SAPZ166I
CAPRSC03
CAPRSC04
CAPRSC02
SAMW132S
SAMW132I
STAFF GUAGE 02 ES P
STAFF GUAGE 01 WS P
CAPRSC01
SAPZ118S
SAPZ118I
SAPZ118D
SAPZ147
BM ES Conn AVE
SASD201
SASW201

Legend

- Piezometer
- New Piezometer
- Monitoring Well
- Staff Gauge
- Supply Well
- Surface Water
- Sediment

0 200 400 800 Feet

TETRA TECH NUS, INC

MONITORING WELL & PIEZOMETER LOCATION MAP
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	3-2	REV	DATE 12/8/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR Site2_locmap_100610.mxd map created 120810 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

FTMW01I
FTMW01S
FTMW04
FTMW03S
FTMW02I
FTMW02S
FTMW08S
FTMW08I
FTMW05I
FTMW05S
FTMW06I
FTMW06S
FTMW07S

Legend

- Monitoring Wells
- Fence Line
- Property Line

0 75 150 300 Feet

SCALE IN FEET

TETRA TECH NUS, INC

SITE 2 - FIRE TRAINING AREA
MONITORING WELL LOCATION MAP
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	3-3	REV	DATE 12/8/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR Site6a10b_locmap_100610.mxd map created 120810 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

Legend

- Monitoring Well
- Fence Line
- Property Line

0 75 150 300 Feet

SCALE IN FEET

TETRA TECH NUS, INC

SITE 6A-FUEL CALIBRATION AREA
SITE 10B-ENGINE TEST HOUSE
MONITORING WELL LOCATION MAP
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	3-4	REV	DATE 12/8/10

P:GIS Files/Calverton/MapDocs/MXD/DSR 2010/ Site2 ltagmap 11092010.mxd map created mmc 12212010

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

NOTES:
BLANK CELLS INDICATE RESULT IS NON-DETECT
NX-NO EXCEEDANCES OF NYSDOH MCLs
J-ESTMATED VALUE
µg/L-MICROGRAMS PER LITER
BOLDED VALUES ARE GREATER THAN OR EQUAL TOO NYSDOH MCLs
SAMPLE RESULTS FOR ORGANICS IN GROUNDWATER SAMPLES ARE REPORTED IN µg/L

N

FTMW02S	Aug 1994	Aug 1994 (DUP)	Mar 1995	Mar 1995 (DUP)	Aug 1995	Sept 1995	Oct 1995	Nov 1995	Dec 1995	Jan 1996	Jun 1997	Jan 2008	Sept 2009	Sept 2009 (DUP)	Sept 2010	Sept 2010 (DUP)
Vinyl Chloride	**25**	**25**	**5 J**	**9 J**	**25**							**3 J**	1.4 J	1.4 J		
Chloroethane	**1,100**	**1,100**	**190**	**340**	**420**	**21**	**20**	**17**		**40 J**						
1,1-Dichloroethene	**9 J**	**13 J**			**8**		**6**									
1,1-Dichloroethane	**1,100**	**1,200**	**310**	**590**	**200**	**39**	**36**	**24**		**69**	**58**	**17**	**5.7 J**	**5.9 J**	**15**	**11**
1,2-Dichloroethene (total)	**310**	**290**	**93**	**100 J**	**220**	**18**	**21**	**14**		**53**	**78**	**9 J**				
2-Butanone	**71 J**		**82**	**130 J**	**140**					**100**	**69**	6	10 J	8.1 J	15	12 J
1,1,1-Trichlorethane	**120**	**140**	**50**	**58 J**	**59**	**20**	**41**	**26**		**29 J**						
Trichlorethane	**7 J**	**9 J**										0.6 J				
Benzene	**14 J**	**15 J**			**8**						**19 J**				0.31 J	
Tetrachloroethene	**20**	**21**	**13**		**12**	**5**	**12**	**12**		**37 J**						
Toluene	**280**	**320**	**200**	**320**	**250**	**78**	**75**	**62**		**94**	**63**	**46**				
Ethylbenzene	**16 J**	**21**	**18**	**18**	**J**	**13**	**13**	**12**	**10**		**8.7 J**	**24**	**14 J**	**15 J**	**6.2**	**5.3**
Isopropylbenzene												**8 J**	4.8 J	**5.0 J**	2.5 J	1.8 J
Total Xylenes	**180**	**230**	**180**	**150 J**	**110**	**120**	**120**	**100**		**140**	**91**	**170**	**23 J**	**25 J**	**22**	**16**
1,2-Dichlorobenzene	**8 J**	**7 J**			**5 J**						**NA**	**21**	**5.2 J**	**5.3 J**	4.3 J	4.2 J
4-Methylphenol	**160**	**180**	**120**	**110**	**250**	**91**				**72 J**	**NA**	**NA**	**NA**	**NA**		
1,4-Dichlorobenzene												**8**	2.0 J	1.6 J		
cis-1,2-Dichlorethene												**9**				

FTMW01S	Aug 1994	Mar 1995	Jan 2008	Sept 2009	Sept 2010
VOCs					

FTMW01I	Aug 1994	Mar 1995	Jan 2008	Sept 2009	Sept 2010
VOCs					NX

FTMW04S	Aug 1994	Mar 1995	Jan 2008	Sept 2009	Sept 2010
VOCs					

FTMW02I	Aug 1994	Mar 1995	Mar 1995 (DUP)	Jan 2008	Sept 2009	Sept 2010
VOCs						

FTMW03S	Aug 1994	Aug 1994 (DUP)	Mar 1995	Jan 2008	Sept 2009	Sept 2010
1,1,1-Trichlorethane	**5 J**	**5 J**	**6 J**			
Trichlorethene	**51**	**48**	**87**	0.6 J	2.2 J	

FTMW06S	Aug 1994	Mar 1995	Jun 1997	Jan 2008	Sept 2009	Sept 2010
VOCs						

FTMW05I	Aug 1994	Mar 1995	Jan 2008	Sept 2009	Sept 2010
VOCs				NX	NX

FTMW08S	Jun 1997	Nov 1997	Jan 2008	Sept 2009	Sept 2010
VOCs			NX		

FTMW06I	Aug 1994	Mar 1995	Jun 1997	Jun 1997 (DUP)	Jan 2008	Sept 2009	Sept 2010
VOCs					NX		NX

FTMW07S	Aug 1994	Mar 1995	Jun 1997	Jan 2008	Sept 2009	Sept 2010
VOCs						NX

FTMW05S	Aug 1994	Mar 1995	Jun 1997	Nov 1997	Jan 2008	Sept 2009	Sept 2010
Chloroethane	**130**	**79**					
1,1-Dichloroethane	**16**	**22**					
1,2-Dichloroethene (total)	**26**	**26**					
Toluene	**23**						
Total Xylenes	**17**	**8 J**					

FTMW08I	Jun 1997	Nov 1997	Jan 2008	Sept 2009	Sept 2010
Chloroethane	**91**	**30**			
1,1-Dichloroethane	**110**	**55**			2.2 J
1,2-Dichloroethene (total)	**5.2 J**	**3.7**			
1,1,1-Trichlorethane	**13**	3.8			
Total Xylenes	**13**				

Legend

Monitoring Well

0 100 200 400 Feet

SCALE IN FEET

TETRA TECH NUS, INC

GROUNDWATER ANALYTICAL EXCEEDANCES
SITE 2-FIRE TRAINING AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	**4-1**	REV	DATE 12/21/10

P:GIS Files/Calverton/MapDocs/MXD/DSR_2010/Site6A10b_tagmap_11092010.mxd mmc 12202010

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

FCMW01I

	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				

FCMW01S

	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				

FCMW08S

	1997	1998	2005	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1-DCA	**19**						

FCMW03S

	1994	1995	2005	Jan 2008	Aug 2008	Sept 2009	Sept 2010
Chloroethane	**110**	2				NA	
Ethylbenzene	**33**	**15**	**81**			NA	**23**
Xylenes (Total)	**310**	**120**	**430**			NA	15

FCMW04S

	1994	1995	2005	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1,1-Trichloroethane	**4**						
1,1-Dichloroethane		**26**	1.5				
Chloroethane	**26**						
Methane	NA	NA	NA	NA	NA	4	

FCMW04I

	1994	1995	2005	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs	NX			NX			
Methane	NA	NA	NA	NA	NA	0.3 J	

FCMW02S

	1994	1995	2000	2005	Jan 2008	Jan 2008 (Dup)	Aug 2008	Aug 2008 (Dup)	Sept 2009	Sept 2010	Sept 2010 (Dup)
1,1,1-Trichloroethane	**15,000**	**12,000**	**2,200**	**12**	2 J	2 J			NA		
1,1-Dichloroethane	**5,800**	**4,800**	**3,600**	**29**	**6**	**6**	3	3	NA	**11**	**11**
1,1-Dichloroethene	**380**	**110**	**37**	1.1	0.7 J				NA		
2-Butanone										18 J	33 J
Benzene		**6**	1						NA		
Chloroethane	**320**	**360**	**720**	**20**	4 J	4 J	3	3	NA		
Ethylbenzene		**88**	**27**	1.1	0.4 J	0.5 J			NA	**6.3**	4.6 J
Toluene	**330**	**190**	**180**	3.8	3 J	3 J	0.5 J	0.5 J	NA		
Total Xylenes	**390**	**690**	**570**	17	9 J	10 J	0.4 J	0.4 J	NA	39 J	25 J

FCMW07I

	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				

FCMW07S

	1997	1999	2005	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				NX	NX		NX

FCMW02I

	1994	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1,1-Trichloroethane	**210**			NA	
1,1-Dichloroethane	**95**	0.7J		NA	
1,1-Dichloroethene	**2**			NA	

ETMW03S

	Jan 2008	Jan 2008 (Dup)	Aug 2008	Aug 2008 (Dup)	Sept 2009	Sept 2010
VOCs						NX

FCMW06S

	1994	1995	Jan 2008	Aug 2008	Sept 2009	Sept 2010
Tetrachloroethene	2		**12**	0.9 J		

ETMW02S

	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs	NX	NX		NX

FCMW05S

	1994	1995	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1,1-Trichloroethane	**4**			0.3 J		
1,1-Dichloroethane				**4**		
Chloroethane				**5**		
Ethylbenzene						**6.8 J**
Isopropylbenzene						**8.2 J**

ETMW01S

	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				NX

FCMW05I

	1994	1995	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs		NX	NX			NX

Legend

Monitoring Well

0 200 400 Feet

SCALE IN FEET

NOTES:
BLANK CELLS INDICATE RESULT IS NON-DETECT
NX-NO EXCEEDANCES OF NYSDOH MCLs
J-ESTMATED VALUE
µg/L-MICROGRAMS PER LITER
BOLDED VALUES ARE GREATER THAN OR EQUAL TOO NYSDOH MCLs
SAMPLE RESULTS FOR ORGANICS IN GROUNDWATER SAMPLES ARE REPORTED IN µg/L

TETRA TECH NUS, INC

GROUNDWATER ANALYTICAL EXCEEDANCES
SITE 6A-FUEL CALIBRATION AREA
SITE 10B-ENGINE TEST HOUSE
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	**4-2**	REV	DATE 12/20/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR/SA_tagmap_11092010.mxd mmc 120810

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

Legend

- Piezometer
- New Piezometer
- Monitoring Well

SCALE IN FEET
0 200 400
Feet

FCMW08S
FCMW04S
FCMW04I
FCMW03S
FCMW07S
FCMW07I
FCMW05S
FCMW05I
ETMW03S
ETMW02S
ETMW01S

SAMW130I	Sept 2009	Sept 2010
VOCs		NX

SAMW130S	Sept 2009	Sept 2010
VOCs		

SAPZ138I	April 2010	July 2010	July 2010 (Dup)
1,1-Dichloroethane	**8.7**	**20**	**20**

SAPZ139I	April 2010	July 2010
1,1,1-Trichloroethane	**35**	2.3 J
1,1-Dichloroethane	**160 J**	**17**
1,1-Dichloroethene	**11**	0.94 J
Chloroethene	**22 J**	18 J

SAPZ137	Mar 2010
VOCs	

SAMW126I	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				NX

SAMW126S	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs		NX	NX		NX

SAMW126D	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs		NX		

SAPZ136	Mar 2010
VOCs	NX

SAMW128D	Jan 2008	Aug 2008	Sept 2009	Sept 2009 (Dup)	Sept 2010
1,1-Dichloroethane	**5**	**7**	2.9 J	3.1 J	1.6 J

SAMW128I	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1,1-Trichloroethane	**48**	**35**	2.4 J	1.1 J
1,1-Dichloroethane	**160**	**170**	**33**	**10 J**
1,1-Dichloroethene	**18**	**12**	2.5 J	
Chloroethane	**6**	**6**		

SAMW128S	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				

SAMW129S	Jan 2008	Aug 2008	Aug 2008 (Dup)	Sept 2009	Sept 2010
VOCs				NX	NX

SAMW129I	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs	NX	NX	NX	NX

SAPZ134	Mar 2010
1,1,1-Trichloroethane	**5.3**
1,1-Dichloroethane	**31**

SAPZ135	Mar 2010
1,1,1-Trichloroethane	**70**
1,1-Dichloroethane	**260**
1,1-Dichloroethene	**22**
Chloroethene	**15 J**

SAMW127S	Jan 2008	Jan 2008 (Dup)	Aug 2008	Sept 2009	Sept 2010
VOCs	NX	NX		NX	

SAMW127D	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs	NX			

SAMW127I	Jan 2008	Aug 2008	Sept 2009	Sept 2010	Sept 2010 (DUP)
1,1,1-Trichloroethane	**94**	**94**	**61**	1.2 J	1.1
1,1-Dichloroethane	**410**	**470**	**270 J**	**9.1 J**	**9.3**
1,1-Dichloroethene	**30**	**27**	**20**		
1,4-Dichlorobenzene	3 J	**13**	3.8 J		
Chloroethane	**51**	**63**	**29**		

SAPZ133I	Mar 2010	July 2010
1,1,1-Trichloroethane	**120**	**24**
1,1-Dichloroethane	**460**	**130**
1,1-Dichloroethene	**7.8**	1.6 J
Chloroethene	**67**	**9.6**

SAPZ133I1	Mar 2010	July 2010 (DUP)
1,1-Dichloroethane	**26**	**23**

SAPZ120S
SAPZ122S
SAPZ122I
SAMW131S
SAMW131I
SAMW131D
SAPZ123S
SAPZ123I
SAPZ123I1
SAPZ166I

NOTES:
BLANK CELLS INDICATE RESULT IS NON-DETECT
NX-NO EXCEEDANCES OF NYSDOH MCLs
J-ESTMATED VALUE
µg/L-MICROGRAMS PER LITER
BOLDED VALUES ARE GREATER THAN OR EQUAL TOO NYSDOH MCLs
SAMPLE RESULTS FOR ORGANICS IN GROUNDWATER SAMPLES ARE REPORTED IN µg/L

TETRA TECH NUS, INC

GROUNDWATER ANALYTICAL EXCEEDANCES
ONSITE SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	4-3	REV	DATE 12/8/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR/SA_tagmap_11092010-part2.mxd mmc 01252011

* Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

SAMW126S
SAMW126I
SAMW126D

SAPZ140	June 2010	Sept 2010	Sept 2010 (DUP)
1,1,1-Trichloroethane	**17**	**9**	**10**
1,1-Dichloroethane	**140**	**93**	**100**
1,1-Dichloroethene	**8.5**	**6.7**	**7.8**
Chloroethene	**19**	**14**	**15**

SAPZ134

SAMW145S	June 2010	Sept 2010
VOCs		

SAPZ145I	June 2010	Sept 2010	Sept 2010 (DUP)
1,1,1-Trichloroethane	**8.7**	**6.1**	**5.9**
1,1-Dichloroethane	**91**	**66**	**69**
1,1-Dichloroethene	**8.2**	**8.4**	**8.7**
Chloroethene	**6.1**	4.5 J	4.1 J

SAPZ145D	June 2010	June 2010 (DUP)	Sept 2010
1,1-Dichloroethane	**18**	**19**	**19**

SAMW129S
SAMW129I
SAMW129D

SAPZ120S	2005	2006	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs						NX

SAMW122S	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				NX

SAMW122D	2005	2005	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs	NX	NX		NX	NX	NX

SAPZ144S	June 2010
VOCs	

SAPZ141	June 2010
VOCs	NX

SAPZ144I	June 2010
VOCs	NX

SAPZ142	June 2010
1,1,1-Trichloroethane	**60**
1,1-Dichloroethane	**410**
1,1-Dichloroethene	**21**
Chloroethene	**36**

SAPZ146

SAMW131S	Sept 2009	Sept 2010
VOCs		

SAMW122I	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1-Dichloroethane	1 J			**9.7**

SAPZ143	June 2010	Sept 2010
1,1,1-Trichloroethane	**110**	**110**
1,1-Dichloroethane	**590**	**600**
1,1-Dichloroethene	**39**	**52**
1,2,4-Trichlorobenzene		**7.1 J**
Chloroethene	**44**	
Vinyl Chloride	**2.4 J**	

SAMW131I	Sept 2009	Sept 2010
1,1,1-Trichloroethane		**18 J**
1,1-Dichloroethane		**130 J**
1,1-Dichloroethene		**13 J**

SAMW131D	Sept 2009	Sept 2010
1,1-Dichloroethane	**15**	**13 J**

SAPZ166I	Sept 2010
VOCs	NX

SAPZ125	2006	Aug 2008	Sept 2009	July 2010	Sept 2010
VOCs					

SAPZ124	2006	Aug 2008	Sept 2009	July 2010	Sept 2010
1,1-Dichloroethane	**38**	**4**	**17**	**15**	**22**
1,1-Dichloroethene				2.1 J	**5.2**

SAMW132S	Sept 2009	Sept 2010
VOCs		NX

SAPZ147	July 2010	Sept 2010
VOCs		NX

SAMW123S	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs		NX		NX

SAPZ118S	2005	2006	Jan 2008	Aug 2008	Sept 2009	Sept 2009 (DUP)	Sept 2010
1,1-Dichloroethane			4 J	**17**	2.5 J	2.1 J	

SAPZ123I1	Jan 2008	Aug 2008	Aug 2008 (DUP)	Sept 2009	Sept 2010 (DUP)	Sept 2010
1,1-Dichloroethane	**23**	**13**	**13**	**6.3**		

SAPZ118I	2005	2006	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				NX		

SAPZ123I	2005	2005	2006	Jan 2008	Aug 2008	Sept 2009	Sept 2010
1,1,1-Trichloroethane	**7.6**		3 J	1 J	1		0.59 J
1,1-Dichloroethane	**97**	**125**	**91**	**55**	**63**	**54**	**42 J**
1,1-Dichloroethene	**20**	**22**	**15**	**7**	**10**	**6.9**	**6.9 J**
Toluene	**10.1**						
Vinyl Chloride					**3**		

Legend

- Piezometer
- New Piezometer
- Monitoring Well

0 250 500 Feet

SCALE IN FEET

NOTES:
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NX-NO EXCEEDANCES OF NYSDOH MCLs
J-ESTMATED VALUE
µg/L-MICROGRAMS PER LITER
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SAMPLE RESULTS FOR ORGANICS IN GROUNDWATER SAMPLES ARE REPORTED IN µg/L

TETRA TECH NUS, INC

GROUNDWATER ANALYTICAL EXCEEDANCES
OFFSITE SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	**4-4**	REV	DATE 1/25/11

112G01655\0510\112G01655GM22-1.DWG 01/24/11 MKB

SA-TW351	09/10			
feet bgs	15 ft	25 ft	35 ft	45 ft
VOCs		NX	NX	

SA-TW350	09/10		
feet bgs	15 ft	25 ft	35 ft
VOCs			

SA-TW349	09/10		
feet bgs	15 ft	25 ft	35 ft
1,1,1-TCA		830	1,200
1,1-DCA	1.9 J	1,200	1,300
1,1-DCE		61	76
CE		500	250
Benzene	3.2 J	2.0 J	17
Naphthalene	63	61	150
Ethyl Benzene	50	3.3 J	16
Xylenes (Total)	120	1.3 J	17
Isopropylbenzene	15	6.3	17

SA-TW343	06/10			
feet bgs	15 ft	25 ft	35 ft	45 ft
1,1,1-TCA		0.65 J	120	2.1 J
1,1-DCA		24	1,400 J	14
1,1-DCE		0.78 J	60	
Vinyl Chloride			3.8 J	
CE		8.9	970 J	4.1 J
Benzene			3.8 J	
1,2-Dichlorobenzene			6.1	
Naphthalene			98	
Ethyl Benzene		0.46 J	19	
Xylenes (total)			6.5 J	
Isopropylbenzene			17	

SA-TW309	03/09		
feet bgs	15 ft	30 ft	54 ft
VOCs		NX	

SA-TW342	06/10				
feet bgs	15 ft	25 ft	35 ft	35 ft (Dup)	45 ft
VOCs			NX	NX	

SA-TW348	09/10		
feet bgs	15 ft	25 ft	35 ft
1,1,1-TCA		550	
1,1-DCA		1,500	4.0 J
1,1-DCE		72	
CE		340	
Benzene		4.6 J	
Naphthalene		190	
Ethyl Benzene		120	
Xylenes (total)		65	
Isopropylbenzene		35	

SA-TW347	09/10			
feet bgs	15 ft	25 ft	35 ft	45 ft
VOCs		NX	NX	

SA-TW346	09/10			
feet bgs	15 ft	25 ft	35 ft	45 ft
1,1,1-TCA			15	
1,1-DCA		1.0 J	38	

SA-TW324	03/10		
feet bgs	16 ft	34 ft	49 ft
VOCs			NX

SA-TW323	03/10		
feet bgs	18 ft	34 ft	56 ft
VOCs			

SA-TW330	03/10		
feet bgs	22 ft	34 ft	54 ft
VOCs			NX

SA-TW303	03/09		
feet bgs	15 ft	30 ft	54 ft
VOCs			

SA-TW344	06/10			
feet bgs	15 ft	25 ft	35 ft	45 ft
VOCs		NX	NX	

SA-TW335	06/10				
feet bgs	15 ft	25 ft	35 ft	45 ft	45 ft Dup
1,1,1-TCA		70	570	0.6 J	0.59 J
1,1-DCA		280	2,100		1.3 J
1,1-DCE		16	110		
CE		76	470		
Benzene		1.3 J	7.2 J		
Vinyl Chloride			8.1	1.3 J	
Isopropylbenzene			2.3 J		

SA-TW302	03/09		
feet bgs	15 ft	30 ft	54 ft
VOCs			NX

SA-TW341	06/10				
feet bgs	15 ft	25 ft	35 ft	45 ft	
PCE			38		

SA-TW306	03/09		
feet bgs	15 ft	30 ft	55 ft
VOCs			NX

SA-TW336	06/10		
feet bgs	15 ft	25 ft	35 ft
1,1,1-TCA			55
1,1-DCA	1.2 J		240
1,1-DCE			15
1,4-DCB			6.4 J
CE			110
Isopropylbenzene			11

SA-TW332	06/10		
feet bgs	15 ft	25 ft	35 ft
1,1,1-TCA			9.9
1,1-DCA			32
CE			11

SA-TW339	06/10		
feet bgs	15 ft	25 ft	35 ft
VOCs	NX		

SA-TW305	03/09			
feet bgs	15 ft	30 ft	55 ft	
VOCs	NX	NX		

SA-TW308	03/09		
feet bgs	15 ft	30 ft	49 ft
VOCs			NX

SA-TW331	06/10		
feet bgs	15 ft	25 ft	35 ft
PCE		190	

SA-TW334	06/10		
feet bgs	15 ft	25 ft	35 ft
VOCs			NX

SA-TW321	03/10			
feet bgs	15 ft	34 ft	53 ft	
1,1-DCA	0.95 J	6.9	2.4 J	

SA-TW320	03/10			
feet bgs	15 ft	34 ft	55 ft	55 ft (Dup)
1,1,1-TCA		440		
1,1-DCA		1,200	3.1 J	3.1 J
1,1-DCE		86		
CE		270		
Benzene		2.2 J		
Isopropylbenzene		14		

SA-TW333	06/10		
feet bgs	15 ft	25 ft	35 ft
1,1,1-TCA		0.39 J	250
1,1-DCA		3.1 J	740
1,1-DCE			43
CE		1.6 J	240

SA-TW337	06/10		
feet bgs	15 ft	25 ft	35 ft
VOCs	NX		NX

SA-TW307	03/09		
feet bgs	15 ft	30 ft	49 ft
VOCs	NX		NX

SA-TW340	06/10		
feet bgs	25 ft	35 ft	45 ft
1,1,1-TCA		70	0.99 J
1,1-DCA		460 J	3.1 J
1,1-DCE		21 J	1.3 J
CE		310 J	10 J
Benzene		3.1 J	0.46 J
1,4-Dichlorobenzene		8.8 J	
Ethyl Benzene		5.6 J	
Isopropylbenzene		19 J	

SA-TW304	03/09		
feet bgs	15 ft	30 ft	50 ft
VOCs	NX		

SA-TW311	09/09		
feet bgs	15 ft	28 ft	51 ft
1,1,1-TCA			54
1,1-DCA			200
1,1-DCE			17

SA-TW313	09/09			
feet bgs	14 ft	25 ft	47 ft	47 ft (Dup)
1,1-DCA			12	13

SA-TW318	03/10	
feet bgs	50 ft	
VOCs	NX	

SA-TW310	03/09		
feet bgs	15 ft	29 ft	53 ft
VOCs		NX	NX

SA-TW319	03/10		
feet bgs	42 ft	49 ft	
1,1,1-TCA		7.6	
1,1-DCA	22	59	

SA-TW338	06/10		
feet bgs	15 ft	25 ft	35 ft
1,1,1-TCA			130
1,1-DCA			950
1,1-DCE			37
CE			240
Benzene			2.6 J

SA-TW322	03/10				
feet bgs	15 ft	30 ft	42 ft	49 ft	49 ft (Dup)
1,1,1-TCA			320	14	13 J
1,1-DCA		24	1,000	71	70
1,1-DCE		1.6 J	90	3.9 J	1.9 J
CE			140 J	4.2 J	
Benzene			2.2 J		

SA-TW301	03/09			
feet bgs	15 ft	30 ft	50 ft	50 ft (Dup)
VOCs				

N

LEGEND

△ TEMPORARY WELL

NOTES:
1. BLANK CELLS INDICATE RESULT IS NON-DETECT
2. SAMPLE RESULTS FOR ORGANICS ARE REPORTED IN µg/L.
3. BOLD INDICATES EXCEEDANCES OF NYSDOH MCLS.
4. NX = NO EXCEEDANCES OF NYSDOH MCLS
5. J = ESTIMATED VALUE
6. FT BGS = FEET BELOW GROUND SURFACE
7. µg/L = MICROGRAMS PER LITER
8. 1,1,1-TCA = 1,1,1-TRICHLOROETHANE
9. 1,1-DCA = 1,1-DICHLOROETHANE
10. 1,1-DCE = 1,1-DICHLOROETHENE
11. 1,4-DCB = 1,4-DICHLOROBENZENE
12. CE = CHLOROETHENE

REFERENCE:
AERIAL PHOTOGRAPH PROVIDED BY NYGIS CLEARINGHOUSE MARCH-MAY 2007.

0 250 500
SCALE IN FEET

TETRA TECH NUS, INC.

ON-SITE SOUTHERN AREA TEMPORARY MONITORING WELL EXCEEDANCES NWIRP CALVERTON CALVERTON, NEW YORK

FILE	SCALE
112G01655GM22-1	AS NOTED
FIGURE NUMBER: FIGURE 4-5	REV: 0 DATE: 01/24/11

112G01655\0510\112G01655GM22-2.DWG 12/21/10 MKB

N

SA-TW317	09/09		
feet bgs	15 ft	25 ft	44.5 ft
1,1-DCA			*6.3*

SA-TW353	09/10		
feet bgs	20 ft	30 ft	40 ft
VOCs			*NX*

SA-TW355	09/10		
feet bgs	20 ft	30 ft	40 ft
1,1-DCA			*5.7*

SA-TW356	09/10		
feet bgs	20 ft	30 ft	40 ft
1,1-DCA			*33*

SA-TW352	09/10		
feet bgs	20 ft	30 ft	40 ft
VOCs			*NX*

SA-TW354	09/10		
feet bgs	20 ft	30 ft	40 ft
VOCs			*NX*

SA-TW357	09/10		
feet bgs	20 ft	30 ft	40 ft
1,1-DCA			*38*

SA-TW314	09/09		
feet bgs	12 ft	25 ft	44 ft
1,1,1-TCA			*12*
1,1-DCA			*94*
CE			*14*

SA-TW312	09/09		
feet bgs	12 ft	25 ft	46 ft
1,1,1-TCA			*280*
1,1-DCA			*1,200 J*
1,1-DCE			*55*
CE			*91*

SA-TW315	09/09		
feet bgs	13 ft	25 ft	45 ft
1,1-DCA			*62*

SA-TW316	09/09		
feet bgs	12 ft	25 ft	37 ft
1,1,1-TCA			*51*
1,1-DCA			*240 J*
1,1-DCE			*12*

SA-TW327	06/10			
feet bgs	14 ft	30 ft	45 ft	45 ft (Dup)
1,1,1-TCA			*67*	*68*
1,1-DCA			*310*	*330*
1,1-DCE			*19*	*17*
CE			*34*	*36*

SA-TW325	06/10		
feet bgs	18 ft	36 ft	54 ft
VOCs		*NX*	

SA-TW345	06/10			
feet bgs	15 ft	25 ft	35 ft	45 ft
1,1-DCA				*5 J*

SA-TW328	06/10		
feet bgs	12 ft	27 ft	40 ft
1,1,1-TCA		*19*	*28*
1,1-DCA		*360*	*170*
1,1-DCE		*19*	*12*
CE		*29 J*	*10*
Benzene		*0.88 J*	

SA-TW326	06/10		
feet bgs	22 ft	36 ft	46 ft
1,1,1-TCA			*44*
1,1-DCA		*32*	*310*
1,1-DCE		*1.4 J*	*15*
CE			*22*

SA-TW329	06/10		
feet bgs	14 ft	30 ft	44 ft
1,1,1-TCA		*1.9 J*	*170*
1,1-DCA	*5.2*	*44*	*900*
1,1-DCE		*2.2 J*	*69*
CE		*4.9 J*	*39 J*
Benzene			*1.9 J*

LEGEND

△ TEMPORARY WELL

NOTES:

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2. SAMPLE RESULTS FOR ORGANICS ARE REPORTED IN µg/L.
3. BOLD INDICATES EXCEEDANCES OF NYSDOH MCLS.
4. NX = NO EXCEEDANCES OF NYSDOH MCLS
5. J = ESTIMATED VALUE
6. FT BGS = FEET BELOW GROUND SURFACE
7. µg/L = MICROGRAMS PER LITER
8. 1,1,1-TCA = 1,1,1-TRICHLOROETHANE
9. 1,1-DCA = 1,1-DICHLOROETHANE
10. 1,1-DCE = 1,1-DICHLOROETHENE
11. CE = CHLOROETHENE

REFERENCE:
AERIAL PHOTOGRAPH PROVIDED BY NYGIS CLEARINGHOUSE MARCH-MAY 2007.

0 150 300

SCALE IN FEET

TETRA TECH NUS, INC.

ON-SITE/OFF-SITE SOUTHERN AREA TEMPORARY MONITORING WELL EXCEEDANCES NWIRP CALVERTON CALVERTON, NEW YORK

FILE	SCALE
112G01655GM22-2	AS NOTED
FIGURE NUMBER	REV / DATE
FIGURE 4-6	0 / 12/21/10

P:GIS Files/Calverton/MapDocs/MXD/2010_DSR_sa_sdsw_tagmap_110910.mxd map created mmc 12222010

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

Legend

- Piezometer
- New Piezometer
- Monitoring Well
- Staff Gauge
- Sediment
- Surface Water

0 200 400 Feet

SCALE IN FEET

N

SAPZ120S

SAPZ123S
SAPZ123I
SAPZ123I1

SAPZ166I

SAPZ125

	2006	Aug 2008	Sept 2009	July 2010	Sept 2010
VOCs					

SASD125

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010
VOCs			NX	NX		

SASW125

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010
VOCs						

SAPZ148

	July 2010	Sept 2010	July 2010	Sept 2010 (Dup)
VOCs				

SASW204

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010
VOCs						

SASW124

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010	Sept 2010 (Dup)
VOCs			NX			NX	NX

SASD204

	Aug 2008	Aug 2008 (Dup)	March 2009	Sept 2009	Sept 2009 (Dup)	July 2010	Sept 2010
VOCs				NX			

SAPZ124

	2006	Aug 2008	Sept 2009	July 2010	Sept 2010
1,1-Dichloroethane	**38**	**4**	**17**	**15**	**22**
1,1-Dichloroethene				2.1 J	**5.2**

SAPZ147

	July 2010	Sept 2010
VOCs		NX

SAPZ118I

	2005	2006	Jan 2008	Aug 2008	Sept 2009	Sept 2010
VOCs				NX		

SASD124

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010	Sept 2010 (Dup)
Acetone					**260 J**	**130 J**	46
Carbon Disulfide					**3.4 J**		

SAPZ118S

	2005	2006	Jan 2008	Aug 2008	Sept 2009	Sept 2009 (Dup)	Sept 2010
1,1-Dichloroethane			4 J	**17**	2.5 J	2.1 J	

SDSW201

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010
VOCs						

SASW201

	2006	Aug 2008	March 2009	Sept 2009	July 2010	Sept 2010
VOCs						

NOTES:
BLANK CELLS INDICATE RESULT IS NON-DETECT
NX-NO EXCEEDANCES OF NYSDOH MCLs
J-ESTMATED VALUE
µg/L-MICROGRAMS PER LITER
BOLDED VALUES EXCEED CRITERIA
SAMPLE RESULTS FOR ORGANICS IN GROUNDWATER SAMPLES ARE REPORTED IN µg/L

TETRA TECH NUS, INC

PECONIC RIVER
ANALYTICAL RESULT EXCEEDANCES
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	SCALE
112G01655	AS NOTED
FIGURE NO. 4-7	REV / DATE 12/22/10

P:GIS Files/Calverton/MapDocs/MXD/DSR_2010/caprsc_tagmap_101210.mxd map created mmc 12082010

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

NOTES:
BLANK CELLS INDICATE RESULT IS NON-DETECT
NX-NO EXCEEDANCES OF NYSDOH MCLs
J-ESTMATED VALUE
µg/L-MICROGRAMS PER LITER
BOLDED VALUES ARE GREATER THAN OR EQUAL TOO NYSDOH MCLs
SAMPLE RESULTS FOR ORGANICS IN GROUNDWATER SAMPLES ARE REPORTED IN µg/L

N

CAPRSC03	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	June 2009	Sept 2009	Nov 2009	Feb 2010	April 2010	July 2010
VOCs											

CAPRSC04	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	June 2009	Sept 2009	Nov 2009	Feb 2010	April 2010	July 2010
VOCs											

CAPRSC0201	Jan 2008	Jan 2008 (Dup)	June 2008	Aug 2008	Dec 2008	Dec 2008 (Dup)	Mar 2009	Jun 2009	June 2009 (Dup)	Sept 2009	Nov 2009	Feb 2010	April 2010	July 2010
1,1-Dichloroethane	**12**	**12**	**7**	**13**	**12**	**12**	**12**	**12**	**12**	**11**	**9.3**	**12**	**9.9**	**11**
1,1-Dichloroethene		5 J	4	4	5	5	3.3 J	3.6 J	3.5 J	**6**	4.4J	**5.4**	3.4 J	3.5 J

CAPRSC0202	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	June 2009	Sept 2009	Nov 2009	Feb 2010	April 2010	July 2010
VOCs											

CAPRSC0203	Jan 2008	June 2008	June 2008	Aug 2008	Dec 2009	Mar 2009	June 2009	Sept 2009	Nov 2009	Feb 2010	April 2010	July 2010
VOCs												

CAPRSC01	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	June 2009	Sept 2009	Nov 2009	Feb 2010	April 2010	July 2010
VOCs											

Legend

Supply Well Sample Location

0 50 100 Feet

TETRA TECH NUS, INC

GROUNDWATER ANALYTICAL RESULTS
SOUTHERN AREA
PECONIC RIVER SPORTSMEN CLUB
NWIRP CALVERTON
CALVERTON, NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	**4-8**	REV	DATE 12/8/10

P:\GIS files\Calverton\MapDocs\MXD\DSR 2010 CAL DCA ISO 111710.mxd created 120810 MMC

Aerial photographs provided by the NYS GIS Clearinghouse, March -May 2007.

N

Legend

- Piezometer
- New Piezometer
- Staff Gauge
- Benchmark
- Monitoring Well
- SCDHS Points
- 1,1-DCA Contour µg/L
- 1,1-DCA Contour µg/L (inferred)

0 250 500 1,000 Feet

SCALE IN FEET

TETRA TECH NUS, INC

1,1,-DICHLOROETHANE
ISOCONCENTRATION CONTOUR MAP
NWIRP CALVERTON NEW YORK

FILE	112G01655	SCALE	AS NOTED
FIGURE NO.	4-9	REV	DATE 12/8/10

APPENDIX A

SOIL BORING LOGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720DT

BORING No.: PZ-133
DATE: 3-23-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moiaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1058		1						Direct push from 0' to 42' BGS						
		2												
		3												
		4												
1059		5												
		6												
		7												
		8												
		9												
1100		10												
		11												
		12												
		13												
		14												
1102		15												
		16												
		17												
		18												
		19												
1103		20												
		21												
		22												
		23												
		24												
1104		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macro core samples with Acetate sleeves (42'to47')
3.25" I.D. DPT rods used to install piezometer at location

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-133I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-133
DATE: 3-23-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push From						
		27						0' to 42' BGS						
		28												
		29												
1106		30												
		31												
		32												
		33												
		34												
1109		35												
		36												
		37												
		38												
		39												
1111		40												
		41												
1112		42												
	S-1	43					wht Tan	FGR Sand (micaceous) Trace Silt + MGR sand		wet (saturated	0	0	0	0
		44												
		45									0	0	0	0
		46		60"						Minor Rust stains at 46' BGS				
1115		47		60"	----		Gry	Silty clay with Trace VFGR sand		clay at ~ 46.6' BGS	0	0	0	0
		48			EOB									
		49												
		50												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-133I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-134
DATE: 3-24-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Meredith

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1104		1						Direct push from 0' to 43' BGS						
		2												
		3												
		4												
1105		5												
		6												
		7												
		8												
		9												
1107		10												
		11												
		12												
		13												
		14												
1108		15												
		16												
		17												
		18												
		19												
1110		20												
		21												
		22												
		23												
		24												
1112		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore samples with Acetate sleeves (43' to)
3.25" I.D. HSA rods used to install piezometer at location

Converted to Well: Yes ✓ No ____ Well I.D. #: PZ-134

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-134
DATE: 3-24-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push from						
		27						0' to 43' BGS						
		28												
		29												
1114		30												
		31												
		32												
		33												
		34												
1115		35												
		36												
		37												
		38												
		39												
1117		40	5-2							(See page 3				
		41								for 5-2 info)				
		42												
1119		43												
1121	S-1	44					Gry	Silty clay Trace VFGR Sand		wet (saturated)	0	0	0	6
		45												
		46									0	0	6	8
		47		60"										
1123		48		60"							0	0	0	0
		49			EOB			(See page 3 for						
		50						2nd Macrocore 39' to 44')						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1)

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-134

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-134(A)
DATE: 3-24-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	26						Direct push from						
	27						0' to 39' BGS						
	28												
	29												
	30												
	31												
	32												
	33												
	34												
	35												
	36												
	37												
	38												
	39												
S-2 1155	40					Wht Tan	FGR Sand Trace Silt and MGR Sand		wet (saturated)	0	0	0	0
	41												
	42									0	0	0	0
	43		60"						rust stains at 43' BGS				
1158	44	S-1	60"						clay at 43.5' BGS	0	0	0	0
	45			EOB S-2		Gry	Silty clay Trace VFGR Sand		wet (saturated)				
	46												
	47		60"						(see page 2)				
	48		60"										
	49			EOB S-1									
	50												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1 and 2)
Clay encountered on boring S-1 entire sleeve. Moved boring west 5 feet and collected 2nd macrocore S-2

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-134

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-135
DATE: 3-23-10
GEOLOGIST: Vince Shickora
DRILLER: Even Morzitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0858		1						Direct push from 0' to 42' BGS						
		2												
		3												
		4												
0858		5												
		6												
		7												
		8												
		9												
0900		10												
		11												
		12												
		13												
		14												
0901		15												
		16												
		17												
		18												
		19												
0902		20												
		21												
		22												
		23												
		24												
0904		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"x5' macrocore samples w.ith Acetate sleeves (42'to47')
3.25" I.D. HSA rods used to install peizometer at location

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-135

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-135
DATE: 3-23-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push from 0' to 42' BGS						
		27												
		28												
		29												
0906		30												
		31												
		32												
		33												
		34												
0908		35												
		36												
		37												
		38												
		39												
0909		40												
		41												
0911		42												
0912	S-1	43					Tan wht	FGR Sand with Trace Silt and MGR Sand		wet (saturated	0	0	0	0
		44												
		45									0	0	0	0
		46		60"						minor rust stains at 46.0' BGS				
0914		47		60"			Gry	Silty clay Trace VFGR Sand		wet (saturated)	0	0	0	0
		48			EOB									
		49												
		50												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (See page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-135

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-136
DATE: 3-22-16
GEOLOGIST: Vince Shickora
DRILLER: Even Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller/BZ**
1313		1						Direct push from 0' to 48' BGS						
		2												
		3												
		4												
1314		5												
		6												
		7												
		8												
		9												
1315		10												
		11												
		12												
		13												
		14												
1315		15												
		16												
		17												
		18												
		19												
1316		20												
		21												
		22												
		23												
		24												
1317		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"X5' Macrocore samples with Acetate sleeves (48' to 53')
3.25" ID DPT rods used to install piezometers at location

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-136

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-136
DATE: 3-22-10
GEOLOGIST: Vince Shickora
DRILLER: E. Mosaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push from						
		27						0' to 48' BGS						
		28												
		29												
1318		30												
		31												
		32												
		33												
		34												
1320		35												
		36												
		37												
		38												
		39												
1322		40												
		41												
		42												
		43												
		44												
1324		45												
		46												
		47												
1325		48												
1328	S-1	49					Tan Brn	FGR Sand - Trace Silt + MGR Sand		wet (saturated)	0	0	0	0
	↓	50					Gry	Silty clay - Trace VFGR Sand		clay at 48.5' BGS	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1)

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-136

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-136
DATE: 3-22-10
GEOLOGIST: Vince Shickora
DRILLER: E. Morartis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time													
S-1	51					Gry	Silty clay - Trace VFGR Sand		wet (saturated)	0	0	0	0
	52						↓						
1330 ↓	53						↓			0	0	0	0
	54			EoB									
	55												
	56												
	57												
	58												
	59												
	60												
	61												
	62												
	63												
	64												
	65												
	66												
	67												
	68												
	69												
	70												
	71												
	72												
	73												
	74												
	75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (See page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-136

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720DT

BORING No.: PZ-137
DATE: 3-22-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1118		1						Direct push from 0' to 40' BGS						
		2												
		3												
		4												
1120		5												
		6												
		7												
		8												
		9												
1121		10												
		11												
		12												
		13												
		14												
1122		15												
		16												
		17												
		18												
		19												
1123		20												
		21												
		22												
		23												
		24												
1125		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"X5' macrocore samples with Acetate sleeves (40' to 54')

3.25" I.D. DPT rods used to install piezometer at location

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-137

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-137
DATE: 3-22-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Mozitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct Push from						
		27						0' to 40' BGS						
		28												
		29												
1127		30												
		31												
		32												
		33												
		34												
1128		35												
		36												
		37												
		38												
		39												
1129		40												
1133	S-1	41					Tan Brn	FGR Sand (micaceous) with Trace MGR sand and silt		wet (saturated	0	0	0	0
		42												
		43									0	0	0	0
		44		60"										
1134		45		60"			Tan Brn	Same as above		wet (saturated)	0	0	0	0
1154	S-2	46												
		47												
		48									0	0	0	0
		49		60"										
1155		50		60"			Tan Brn	Same as above		saturated	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" X 5' Macrocore sampler with Acetate sleeves

Converted to Well: (see page 1) Yes ✓ No _____ Well I.D. #: PZ-137

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-137
DATE: 3-22-10
GEOLOGIST: Vince Shickora
DRILLER: Even Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1232	S-3	51					Tan Brn	FGR Sand (micaceous) Trace silt + MGR Sand		wet (saturated)	0	0	0	0
		52									0	0	0	0
		53		48"							0	0	0	0
1236		54		48"			Gry	Silty Clay with Trace FGR sand (plastic)		clay at 53.5' BGS	0	0	0	0
		55			EoB									
		56												
		57												
		58												
		59												
		60												
		61												
		62												
		63												
		64												
		65												
		66												
		67												
		68												
		69												
		70												
		71												
		72												
		73												
		74												
		75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (See page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-137

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-138
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Metaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1140		1						Direct push from 0' to 44' BGS						
		2												
		3												
		4												
1141		5												
		6												
		7												
		8												
		9												
1142		10												
		11												
		12												
		13												
		14												
1143		15												
		16												
		17												
		18												
		19												
1145		20												
		21												
		22												
		23												
		24												
1147		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore samples with Acetate sleeves (44' to 54')
3.25" I.D. DPT rods used to install piezometer at location

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-138

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-138
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push from						
		27						0' to 44' BGS						
		28												
		29												
1148		30												
		31												
		32												
		33												
		34												
1150		35												
		36												
		37												
		38												
		39												
1151		40												
		41												
		42												
		43												
1153		44												
1155	S-1	45					Wht Tan	FGR Sand - Trace MGR Sand and Silt (Micaceous)		wet (saturated)	0	0	0	0
		46												
		47									0	0	0	0
		48		60"										
1156		49		60"							0	0	0	0
1330	S-2	50						Same as above		wet (saturated)				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ✓ No ____ Well I.D. #: PZ-138

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-138
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moreitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time													
S-2	51					Wht Tan	FGR Sand - Trace MGR Sand and Silt			0	0	0	0
↓	52						↓		wet				
1332 ↓	53		60"						rust stains at 53' BGS				
↓	54		60"			Gry	Silty clay Trace VFGR sand		clay at 53.2' BGS	0	0	0	0
	55			EoB									
	56												
	57												
	58												
	59												
	60												
	61												
	62												
	63												
	64												
	65												
	66												
	67												
	68												
	69												
	70												
	71												
	72												
	73												
	74												
	75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-138

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-139
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Mostritis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0950		1						Direct push from 0' to 43' BGS						
		2												
		3												
		4												
0951		5												
		6												
		7												
		8												
		9												
0952		10												
		11												
		12												
		13												
		14												
0953		15												
		16												
		17												
		18												
		19												
0955		20												
		21												
		22												
		23												
		24												
0957		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"x5' macrocore samples w/4L Acetate sleeves (43' to 48')
3.25" I.D. DPT rods used to install piezometer

Converted to Well: Yes ✓ No _____ Well I.D. #: PZ-139

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: PZ-139
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push from 0' to 43' BGS						
		27												
		28												
		29												
0959		30												
		31												
		32												
		33												
		34												
1002		35												
		36												
		37												
		38												
		39												
1004		40												
		41												
		42												
1006		43												
1007	S-1	44					wht Tan	FGR Sand - Trace MGR Sand and silt (micaceous)		wet (saturated)	0	0	0	0
		45												
		46									0	0	0	0
		47		60"						rust stains at 46.9' BGS				
1009		48		60"			Gry	Silty clay Trace VFGR Sand.		clay at 47.0' BGS	0	0	0	0
		49			EoB									
		50												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ✓ No ___ Well I.D. #: PZ-139

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 12G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-PZ-140
DATE: 6-21-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time 1350	1						No macrocores taken				0		0
							until 45-50' bgs						
	5												
											0		0
	10												
											0		0
	15												
											0		0
	20												
											0		0
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"x5' macrocore samples with acetate liners (discrete samples)

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-140

18-22
32-36
50 54

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-PZ-140
DATE: 6-21-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	26						No macrocore samples				0		0
	27						taken until 45-50' bgs						
	28												
	29												
	30												
	31										0		0
	32												
	33												
	34												
	35												
	36										0		0
	37												
	38												
	39												
	40												
	41										0		0
	42												
	43												
	44												
	45												
S-1 1417	46		5/5			tan to gray	F-M sand tr silt		wet	0	0	0	0
	47												
	48								med round pebble	0	0	0	0
	49												
	50					Gray	Clay some silt		wet	0	0	0	0

* When rock coring, enter rock brokeness. EOB 50' bgs

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"x5' macrocore samples w/ acetate liners

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-140

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-PZ-143
DATE: 6-16-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Morales

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1						No macrocores,				0		0
							drive casing to 40' bgs						
	5												
											0		0
	10												
											0		0
	15												
											0		0
	20												
											0		0
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: No samples taken before 40' bgs
2" x 5' macrocores with acetate liners 40-50' bgs
(discrete samples)

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-143

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-PZ-143
DATE: 6-16-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	26						No macrocores, drive				0		0
							down to 40'						
	30												
											0		0
1337	35										0		0
	40												
S-1 1350	41		45/5			light gray fine to fine	F-M sand fr. C sand		wet	0	0	0	0
	42												
	43									0	0	0	0
	44												
	45								linear stuck	0.2	0	0	0
S-2 1440	46					gray	F-M sand fr. C. sand		wet	0.1	0	0	0
	47					Gray	Clay some silt						
	48									0	0	0	0
	49												
	50									0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: See previous page

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-143

Tetra Tech NUS, Inc.

Page 1 of 3

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-144
DATE: 6-22-10
GEOLOGIST: J. Birkett
DRILLER: E. Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 1547	1		2.5/5			tan & gry	F-M sand tr. silt and F. gravel		moist/dry	0	0	0	0
	2					light Brn	silty F-M sand tr. C sand						
	3								moist	0	0	0	0
	4					Brn	F-M sand some silt tr						
	5						small to med round pebbles		moist	0	0	0	0
S-2 1550	6		2.5/5			Brn	↓		moist	0	0	0	0
	7						↓		iron staining				
	8					Brn	M-C sand some F sand		moist	0	0	0	0
	9			▽					WL @ 8.5' bgs				
	10					Tan	F-M sand tr. silt		wet	0.1	0	0	0
S-3 1554	11		4/5			Brn & tan	↓		wet	0	0	0	0
	12						↓						
	13						↓		wet	0	0	0	0
	14					Brn	F-M sand tr. silt and mica						
	15						↓ Flakes		wet	0	0	0	0
S-4 1559	16		3.5/5			Brn & tan	↓		wet	0	0	0	0
	17						↓						
	18					Brn	F sand some M sand & silt tr		wet	0	0	0	0
	19						and tr. C. sand						
	20						↓		wet	0	0	0	0
S-5 1605	21		4/5			Light Brn	F-M sand tr. C sand		few med pebbles	0.2	0	0	0
	22						and silt c						
	23						↓			1.3	0	0	0
	24												
	25						↓			0.2	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore sample w/ acetate liner (discrete sample)

Converted to Well: Yes X No ____ Well I.D. #: SA-PZ-144S and I

Tetra Tech NUS, Inc.

Page 2 of 3

BORING LOG

PROJECT NAME: NJRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT
BORING No.: SA-SB-144
DATE: 6-22-10
GEOLOGIST: J. Birkett
DRILLER: E. Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-6 1616	26		4.5/5			Light Brn	F-M sand tr. silt and		wet	0	0	0	0
	27						C sand few small pebbles						
	28						↓			0	0	0	0
	29												
	30									0	0	0	0
S-7 1630	31		4/5			Light Brn	F sand some M. sand tr. silt		wet	0	0	0	0
	32						↓						
	33									0.1	0	0	0
	34												
	35									0	0	0	0
S-8 1657	36		4/5			Light Brn	F-M sand tr. silt		wet	0	0	0	0
	37					to gray	↓						
	38									0	0	0	0
	39												
	40									0	0	0	0
1720 S-9 1720	41		4/5			Gray	F-M sand tr silt		wet	0	0	0	0
	42								linear crushed				
	43					Gray	F-M sand some silt			0	0	0	0
	44												
	45								wet	0	0	0	0
S-10 1824	46					Gray	F-M sand tr. silt			0	0	0	0
	47						↓						
	48									0	0	0	0
	49												
	50						clay some silt at 49.75			0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: See previous page

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-144S and I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720DT

BORING No.: SA-SB-144
DATE: 6-23-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Morailis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-11 0920	51		5/5			Gray	Clay some silt		wet	0	0	0	0
	52						↓						
	53									0	0	0	0
	54												
	55									0	0	0	0
				EOB 55' bgs									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: See first page

Converted to Well: Yes X No ____ Well I.D. #: SA-PZ-144S and D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-145
DATE: 6-23-10
GEOLOGIST: Jacob Birkett
DRILLER: E. Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 1504	1		2.5/5			Brn	F-M sand tr. silt and F organics		moist	0	0	0	0
	2					light Brn	F-M sand tr. silt and small to med pebbles						
	3								moist	7.3	0	0	0
	4												
	5									1.0	0	0	0
S-2 1506	6		2.5/5			light Brn	F-M sand tr. silt and C sand		moist	0	0	0	0
	7												
	8			▽					wet	0	0	0	0
	9					tan	F-M sand tr. silt		mica flakes				
	10									0	0	0	0
S-3 1510	11		4/5			tan	F-M sand tr silt and		wet	0.2	0	0	0
	12						C sand to small pebbles						
	13								wet	0.1	0	0	0
	14												
	15								wet	0	0	0	0
S-4 1516	16		4.5/5			tan	F-M sand tr. silt, C. sand		wet	0.1	0	0	0
	17						and small to med. round pebbles						
	18					light Brn			wet	0.1	0	0	0
	19												
	20					tan			wet	0	0	0	0
S-5 1526	21		4/5			tan	F-M sand tr. silt and C sand		wet	0	0	0	0
	22												
	23									0	0	0	0
	24												
	25									0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.1

Remarks: 2" x 5' macrocore samples w/ acetate liners (discret samples)

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-145 S,I,D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-145
DATE: 6-23-10 and 6-24-10
GEOLOGIST: J. Birkett
DRILLER: E. Moranti's

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-6 1540	26		5/5			tan	F-M sand tr. silt		wet	0	0	0	0
	27						↓		Mica Flakes				
	28									0	0	0	0
	29												
	30						↓			0	0	0	0
S-7 1558	31		4.5/5			tan to gray	F-M sand tr. silt			0	0	0	0
	32						↓		wet				
	33									0	0	0	0
	34					gray			liner crushed				
	35					gray	clay some silt		Clay @ 34.75'	0	0	0	0
S-8 1650	36		5/5			Gray	Clay some silt		wet	0	0	0	0
	37						↓						
	38									0	0	0	0
	39						↓						
	40					Gray	F-M sand tr. silt		wet	0.1	0	0	0
S-9 1715	41		5/5			Gray	F-M sand tr. silt			0	0	0	0
	42						↓		wet				
	43									0	0	0	0
	44								wet				
	45					gray	Clay some silt			0	0	0	0
S-10 1920	46		5/5			Gray	F: sandy clay		wet	0	0	0	0
	47						F-M sand some clay		Small drive cap not fully depressed during rod advancement				
	48					Gray	Clay some silt			0	0	0	0
	49												
	50					Gray/ Brn	F-M sand tr. silt		wet	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.1

Remarks: See previous page

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-145S, I, D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-145
DATE: 6-24-10
GEOLOGIST: J. Birkett
DRILLER: E. Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-11 (0951)	51		5/5			Gray	F-M sand tr. silt			0.2			
	52						↓						
	53									0.2			
	54												
	55									0.3			
				EOB 55' bgs									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: see first page

Drilling Area Background (ppm): 0.2

Converted to Well: Yes X No ____ Well I.D. #: SA-PZ-145, S,I,D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: **Calverton Pump Test**
PROJECT NUMBER: **112G02045**
DRILLING COMPANY: **Delta**
DRILLING RIG: FALLING

BORING No.: SA-PZ-166I
DATE: 6/24/10
GEOLOGIST: CONTI
DRILLER: CONRAD

	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		0												
1230						M DENSE	BRN	SILTY F/M SAND	SM/SP	DAMP	0			
										↓				
										MOIST				
		5						SAME		MICACEOUS	0			
1300		10						SAME		WET ~ 10'	0			
		15						SAME			0			
1320		20						SAME			0			
		25						SAME			0			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 4 1/4" ID HSA TO ADVANCE BORING.

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-PZ-166I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: **Calverton Pump Test**
PROJECT NUMBER: **112G02045**
DRILLING COMPANY: **Delta**
DRILLING RIG: FAILING

BORING No.: SA-PZ-166I
DATE: 6/24/10
GEOLOGIST: CONTI
DRILLER: CONRAD

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	25				M DENSE	BRN	SILTY F TO M SAND	SM	WET	0			
								SP	TR C. SAND				
									MICACEOUS				
1340	30						SAME			0			
	35						SAME			0			
1400	40						SAME			0			
	45						SAME			0			
1420	50						SAME			0			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: _____

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-PZ-166I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: Calverton Pump Test
PROJECT NUMBER: 112G02045
DRILLING COMPANY: Delta
DRILLING RIG: FAILING

BORING No.: SA-PZ-166T
DATE: 6124110
GEOLOGIST: CONTI
DRILLER: CONRAD

	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		50												
1430	S1 @		3/20	.5/2		DENSE	BRN	SILTY F/M SAND		WET	0			
	1430	52	21/23					TR CLAY		POOR TREC				
										PART OF TOC/ G.S SAMPLE				
		55						SAME			0			
		60				60	TAN				0			
1500	S-2 @		6/7	1.8/2		M DENSE	BRN	SILTY F/M SAND	SM	WET - TOOK				
	1500	62	10/12					TR C. SAND	SP	SAPZ166I-5060 (TOC, GS) COMPOSITE				
		65									0			
		70									0			
1520	S-3 @		13/14	1.5/2		DENSE		SILTY F/M SAND	SU	WET				
		72	18/20					TR C. SAND	SP					
		75									0			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: SA-PZ-166I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: Calverton Pump Test
PROJECT NUMBER: 112G02045
DRILLING COMPANY: Delta
DRILLING RIG:

BORING No.: SA-PZ-166I
DATE: 6/24/10
GEOLOGIST: CONTI
DRILLER: CONRAD

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
75					M DENSE	TAN BRN	SILTY F/M SAND	SM	WET	0			
							TR C. SAND	SP					
80										0			
1540 S4 C		7/10	15/2	80-85 W/ HSA.	M DENSE		SAME		WET TOOK				
82		15/16							SAPZ166I-7080				
									COMP FOR TOC/GS				
							2" PVC SCREEN		60-80'				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: SA-PZ-166I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-318
DATE: 3-24-10
GEOLOGIST: Vince Shickora
DRILLER: Even Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1430	S-1	1					DK Brn	Sandy silt with leaves, roots, etc		very moist	0	0	0	0
		2												
		3			▽		Brn	Silty FGR to MGR Sand - Trace pebbles		wet	0	0	0	0
		4		40"				↓						
	↓	5		60"				↓			0	0	0	0
1433	S-2	6					Brn	Same as above		wet				
		7						↓			0	0	0	0
		8						↓ (less silt)						
		9		52"			Tan Brn	Same as above		wet	0	0	0	0
	↓	10		60"										
1437	S-3	11					Brn Tan	FGR to MGR Sand Trace silt - Fine pebbles (micaceous)		wet	0	0	0	0
		12						↓						
		13									0	0	0	0
		14		58"			Brn Tan	Same as above		wet				
	↓	15		60"				↓ (less MGR sand)			0	0	0	0
1443	S-4	16												
		17					Tan Brn	FGR Sand - little MGR Sand - Trace silt and Fine pebbles (micaceous)		wet	0	0	0	0
		18												
		19		59"				↓			0	0	0	0
	↓	20		60"			Tan Brn	Same as above		wet				
1453	S-5	21						↓			0	0	0	0
		22												
		23						↓			0	0	0	0
		24		59"			Tan Brn	Same as above		wet				
	↓	25		60"				↓			0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: 2"x5' macrocore samples with Acetate sleeves (0' to)

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-318
DATE: 3-24-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1504	S-6	26					Tan Brn	FGR Sand - little MGR Sand Trace silt + fine pebbles (micaceous)		wet	0	0	0	0
		27						↓						
		28						↓			0	0	0	0
		29		57"			Tan Brn	Same as above		wet				
	↓	30		60"				↓			0	0	0	0
1519	S-7	31						↓						
		32						↓			0	0	0	6
		33						↓						
		34		59"			Tan Brn	Same as above		wet	0	0	0	0
	↓	35		60"				↓						
1538	S-8	36						↓						
		37						↓			0	0	0	0
		38						↓						
		39		60"			Tan	Same as above		wet	0	0	0	0
	↓	40		60"				↓						
1559	S-9	41						↓			0	0	0	0
		42						↓						
		43						↓			0	0	0	0
		44		60"			light Tan	Same as above		wet				
	↓	45		60"				↓			0	0	0	0
1628	S-10	46						↓						
		47						↓			0	0	0	6
		48					light Tan	Same as above		wet				
		49		60"				↓		rust stains at 49' BGS				
	↓	50		60"			Gry	Silty Clay Trace VFGR Sand		clay at 49.6' BGS	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (see page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-319
DATE: 3-26-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0904		1						Direct push from 0' to 44' BGS for S-1						
		2												
		3												
		4												
0906		5												
		6												
		7												
		8												
		9												
0908		10												
		11												
		12												
		13												
		14												
0910		15												
		16												
		17												
		18												
		19												
0912		20												
		21												
		22												
		23												
		24												
0914		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"x5' macrocore sampler with Acetate sleeves (44' to)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-319
DATE: 3-26-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Morais

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	26						Direct push From						
	27						0' to 44' on S-1						
	28						Direct push From 0' to 39' on S-2						
	29												
0916	30												
	31												
	32												
	33												
	34												
0918	35												
	36												
	37												
	38												
	39												
0919	S-2 40					Wht Tan	FGR Sand - Trace MGR Sand and silt		wet (Saturated)	0	0	0	0
0948	41												
	42										0	0	0	6
	43		59"						rust stains at 43.9' BGS				
0920	44		60"			Gry	Silty clay Trace VF-GR Sand		clay at 43.9'	0	0	0	0
0950													
0922	S-1 45												
	46								wet	0	0	0	0
	47												
	48		60"							0	0	0	0
0924	49		60"						wet				
	50			EOB									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-320
DATE: 3-26-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1102	S-1	1					DK Brn	Silty Sand with some grass/roots		moist	0	0	0	0
	↓	2						↓						
	↓	3						↓			0	0	0	0
	↓	4		50"				↓						
1103	↓	5		60"			Brn	FGR to MGR Sand Trace Fine pebbles + Silt		moist	0	0	0	0
	S-2	6						↓						
	↓	7						↓			0	0	0	0
	↓	8			▽			↓		wet at ~ 7.5' BGS				
	↓	9		52"			Brn Tan	Same as above		wet	0	0	0	0
1108	↓	10		60"				↓						
	S-3	11						↓			0	0	0	0
	↓	12						↓						
	↓	13						↓			0	0	0	0
	↓	14		53"			Brn Tan	Same as above (Trace CGR Sand)		wet (saturated)				
1111	↓	15		60"				↓			0	0	0	0
	S-4	16						↓						
	↓	17						↓			0	0	0	0
	↓	18						↓						
	↓	19		54"			Brn Tan	Same as above		wet (saturated)	0	0	0	0
1116	↓	20		60"				↓						
	S-5	21						↓			0	0	0	0
	↓	22						↓						
	↓	23						↓			0	0	0	0
	↓	24		58"			Tan Brn	Same as above		wet (saturated)				
1123	↓	25		60"				↓			0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore sampler with Acetate Sleeves To Total depth

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-320
DATE: 3-26-10
GEOLOGIST: Vince Shickora
DRILLER: Even Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	S-6	26					Tan Brn	FGR to MGR Sand Trace CGR Sand and Fine pebbles		wet (saturated)	0	0	0	0
		27						↓						
		28									0	0	0	0
		29		57"			Tan	Same as above		wet (saturated)				
1132	↓	30		60"							0	0	0	0
	S-7	31												
		32									0	0	0	0
		33						↓						
		34		58"			Brn Tan	Same as above		wet (saturated)	0	0	0	0
1157	↓	35		60"										
	S-8	36					wht Tan	FGR Sand (micaceous) Trace MGR Sand - Silt and fine pebbles		wet (saturated)	0	0	0	0
		37						↓						
		38									0	0	0	0
		39		60"			wht Tan	Same as above		wet (saturated)				
1230	↓	40		60"							0	0	0	0
	S-9	41												
		42									0	0	0	0
		43						↓						
		44		60"			Brn Tan	Same as above		wet (saturated)	0	0	0	0
1303	↓	45		60"				↓						
	S-10	46												
		47												
		48						↓						
		49		60"			wht Tan	Same as above		wet (saturated)				
1324	↓	50		60"										

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-320
DATE: 3-26-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time													
S-11	51					Wht Tan	FGR Sand - Trace MGR Sand and Silt		wet (saturated)	0	0	0	0
	52												
	53									0	0	0	0
	54		60"						rust stains 54.0'				
1359	55		60"	----		Gry	Silty Clay - Trace VFGR Sand		clay at 54.5'	0	0	0	0
	56			EoB									
	57												
	58												
	59												
	60												
	61												
	62												
	63												
	64												
	65												
	66												
	67												
	68												
	69												
	70												
	71												
	72												
	73												
	74												
	75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1.)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720

BORING No.: TW-321
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1558		1						Direct push to 53' BGS						
		2												
		3												
		4												
1559		5												
		6												
		7												
		8												
		9												
1602		10												
		11												
		12												
		13												
		14												
1605		15												
		16												
		17												
		18												
		19												
1606		20												
		21												
		22												
		23												
		24												
1608		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"X 5' macrocore samples with Acetate sleeves (50' to 58')

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-321
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Eden Morzitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push to 53' BGS						
		27												
		28												
		29												
1609		30												
		31												
		32												
		33												
		34												
		35												
1610		36												
		37												
		38												
		39												
		40												
1612		41												
		42												
		43												
		44												
		45												
1614		46												
		47												
	S-2	48						(See page 3)						
		49												
1616	↓	50						↓						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1)

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-321
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Even Mosaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	S-2	51						FGR Sand - Trace		wet (saturated)	0	0	0	0
		52					Tan Brn	MGR Sand and Silt micaceous						
1655		53			----					clay at 52.7' BGS	0	0	0	0
	S-1	54					Gry	Silty Clay Trace VFGR sand						
		55									0	0	0	0
		56												
		57									0	0	0	0
1623		58												
		59			EoB									
		60												
		61												
		62												
		63												
		64												
		65												
		66												
		67												
		68												
		69												
		70												
		71												
		72												
		73												
		74												
		75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720DT

BORING No.: TW-322
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moretis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1558		1						Direct push from 0' to 45' BGS						
		2												
		3												
		4												
1559		5												
		6												
		7												
		8												
		9												
1602		10												
		11												
		12												
		13												
		14												
1605		15												
		16												
		17												
		18												
		19												
1608		20												
		21												
		22												
		23												
		24												
1609		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore sampler with Acetate Sleeves (45' to)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-322
DATE: 3-25-10
GEOLOGIST: Vince Shickora
DRILLER: Even Mozartis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push From						
		27						0' to 45' BGS						
		28												
		29												
1611		30												
		31												
		32												
		33												
		34												
1613		35												
		36												
		37												
		38												
		39												
1614		40												
		41												
		42												
		43												
		44												
1618	S-1	45												
1619		46					wht TBN	FGR Sand - Trace MGR Sand and silt		wet (saturated)	0	0	0	0
		47												-
		48									0	0	0	0
		49								rust stains at 48.9' BGS				
1621		50					Gry	Silty clay Trace VFGR Sand		clay at 49' BGS	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (see page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-323
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Morzitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1352		1						Direct push from 0' to 50' BGS						
		2												
		3												
		4												
1353		5												
		6												
		7												
		8												
		9												
1354		10												
		11												
		12												
		13												
		14												
1355		15												
		16												
		17												
		18												
		19												
1357		20												
		21												
		22												
		23												
		24												
1359		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore sampler with Acetate sleeve (50' to 60')

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-323
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Even Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time	26						Direct push from 0' to 50' BGS						
	27												
	28												
	29												
1401	30												
	31												
	32												
	33												
	34												
1403	35												
	36												
	37												
	38												
	39												
1405	40												
	41												
	42												
	43												
	44												
1407	45												
	46												
	47												
	48												
	49												
1408	50												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-323
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moratis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time													
S-1	51					Tan Brn	FGR Sand - Trace MGR Sand and Silt		wet (saturated)	0	0	0	0
	52												
	53									0	0	0	0
	54		60"										
1419	55		60"							0	0	0	0
S-2	56					Gry Brn	Clayey Silt Trace VFGR Sand		clay at ~55.5' bgs				
	57									0	0	0	0
	58					Gry	Silty Clay: Trace VFGR Sand		wet				
	59		60"							0	0	0	0
1432	60		60"										
	61			EOB									
	62												
	63												
	64												
	65												
	66												
	67												
	68												
	69												
	70												
	71												
	72												
	73												
	74												
	75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1.)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-324
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1517		1						Direct push from 0' to 44' BGS						
		2												
		3												
		4												
1518		5												
		6												
		7												
		8												
		9												
1520		10												
		11												
		12												
		13												
		14												
1521		15												
		16												
		17												
		18												
		19												
1522		20												
		21												
		22												
		23												
		24												
1523		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2" x 5' macrocore sampler with Acetate sleeves (4' to 49')

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: TW-324
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Even Mosaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
		26						Direct push from 0' to 49' BGS						
		27												
		28												
		29												
1525		30												
		31												
		32												
		33												
		34												
1527		35												
		36												
		37												
		38												
		39												
1528		40												
		41												
		42												
1530		43												
1532	S-1	44												
		45					Tan Brn	FGR Sand - Trace MGR sand and silt						
		46												
		47								rust stains at 47' to 48' BGS				
1534		48												
		49					Gry	Silty clay Trace vFGR Sand		clay at 48.8' BGS				
		50												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ____

Remarks: ____

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-WE08
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-325
DATE: 6-15-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 0918	1		3.5/5'			Brn/Blk	F-M sand some F. organics tr. C. sand		Moist				
	2					light Brn	F-M sand tr. C. sand						
	3						↓						
	4								moist				
	5						↓						
S-2 0923	6		2.5/5			light Brn	M. sand some small to med. round pebbles		Moist				
	7					light Brn	F-M sand tr. C sand						
	8						↓		moist				
	9												
	10					light tan	F-M sand		moist				
S-3 0930	11		3.5/5				↓						
	12					light Brn	F-M sand						
	13			▽		Brn light tan	F-M sand tr. F. organics M. sand some F. sand tr. C. sand		wet				
	14						↓						
	15												
S-4 0935	16		3/5			tan	M. sand some F. sand tr. C. sand		wet				
	17						↓						
	18												
	19												
	20						↓		wet				
S-5 0943	21		4.5/5			tan to light Brn	M sand some F. sand tr. sm. round pebbles to C. sand						
	22						↓						
	23												
	24												
	25						↓						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2 × 5' macrocore samples with acetate sleeves (discrete samples)

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-141

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-325
DATE: 6-15-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-6 1017	26		4.5/5			light Brn	F-M sand tr. C sand and small round pebbles		wet	0	0	0	0
										0	0	0	0
	30									0	0	0	0
S-7 1030	31		0/5				No recovery			0	0	0	0
										0	0	0	0
	35									0	0	0	0
S-8 1045	36		5/5			light Brn to tan	F-M sand tr. C. sand and small round pebbles		wet	0	0	0	0
										0	0	0	0
	40					tan to gray				0	0	0	0
S-9 1100	41		4.5/5			tan to light gray	F-M sand tr. C. sand and SM. round pebbles		wet	0	0	0	0
										0	0	0	0
	45												
S-10 1132	46		2/5			tan to light gray	F-M sand tr. C. sand and SM. round pebbles		wet	0	0	0	0
										0	0	0	0
	50									0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-141

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-325
DATE: 3-15-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moralties

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-11 1227	51		5/5			Gray	F-M sand tr. C sand and SM, lomed, round pebbles		wet	0	0	0	0
	52						↓ ↓						
	53					Gray	Clay some silt			0	0	0	0
	54					Gray	F-M sand tr. C. sand						
	55					Gray	Clay some silt			0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes X No ____ Well I.D. #: SA-PZ-141

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-326
DATE: 6-16-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 0836	1		4/5			Blk/Brn	F-M sand some organics tr. C sand		moist	0	0	0	0
	2					Tightgd Brn	F-M sand tr. C. sand						
	3					light Brn	F-M sand tr. C. sand		moist	0	0	0	0
	4						and small round pebbles						
	5						↓			0	0	0	0
S-2 0842	6		3/5			light Brn	F-M sand tr. C. sand and		Moist	0	0	0	0
	7						small to med. round pebbles						
	8						↓		moist	02	0	0	0
	9												
	10					tan	M sand some F. sand tr. C. sand		moist	0.1	0	0	0
S-3 0847	11		3/5			tan	F-M sand tr. C. sand		moist	03	0	0	0
	12						↓		water table @ 12' bgs				
	13						↓		small area of iron staining	0	0	0	0
	14					light Brn	M-C sand some F. sand		wet				
	15						↓			0.1	0	0	0
S-4 0856	16		3.5/5			light Brn	F-M sand tr. C. sand		wet	0	0	0	0
	17									0			
	18					tan	F-M sand tr. C. sand		iron staining @ 18'	0	0	0	0
	19												
	20					light Brn	F-M sand tr. C sand and small round pebbles		wet	0	0	0	0
S-5 0905	21		2.5/5			Brn	F-M sand tr. C sand and small round pebbles		wet	0	0	0	0
	22						F-M sand some C sand tr. sm. large pebbles						
	23					Brn	↓			0.1	0	0	0
	24												
	25						↓		wet	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"x5' macrocores with acetate liners (discret samples)

Converted to Well: Yes X No _____ Well I.D. #: SA-PZ-326

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-326
DATE: 6-16-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Morailis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-6 0923	26		4/5			light Brn	F-M sand tr. C. sand		wet	0	0	0	0
							and small round pebbles						
							↓		wet	0	0	0	0
							↓						
	30						↓		wet	0	0	0	0
S-7 0933	31		4/5			light Brn	F-M sand tr. small round pebbles		wet	0	0	0	0
							↓						
							↓		wet	0.1	0	0	0
							↓						
	35						↓		wet	0	0	0	0
S-8 0955	36		3.5/5			light Brn to tan	F-M sand tr. C sand and small round pebbles		Wet	0	0	0	0
							↓		wet	0	0	0	0
							↓						
	40						↓		wet	0	0	0	0
S-9 1020	41		5/5			tan to gray	F-M sand tr. C sand		wet	0.1	0	0	0
							↓						
							↓			0.2	0	0	0
							↓		wet				
	45						↓			0.1	0	0	0
S-10 1046	46			45.5		Gray Gray	F-M sand tr. C sand Clay some silt		wet	0	0	0	0
							↓						
							↓		wet	0	0	0	0
							↓						
	50			EOB 50'			↓		wet	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: See previous page

Converted to Well: Yes x No _____ Well I.D. #: SA-PZ-142

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720

BORING No.: SA-TW-327
DATE: 6-22-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1037		1						No macrocore samples				0		0
								taken until 45-50' bgs						
		5												
1038												0		0
		10												
1039												0		0
		15												
1040												0		0
		20												
1041												0		0
		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.1

Remarks: Macrocore samples w/ acetate liners

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-TW-317
DATE: 6-22-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1042		26						No macro core samples				0		0
		27						taken until 40-45' bgs						
		28												
		29												
		30												
1043		31										0.1		0
		32												
		33												
		34												
		35												
1044		36										0.1		0
		37												
		38												
		39												
		40												
1140 1046	S-2	41		5/5			tan to gray	F-M sand tr. silt		wet	0	0.1	0	0
		42												
		43									0	0	0	0
		44												
		45					gray	Clay some silt						
1056	S-1	46		5/5			Gray	Clay some silt		wet ~~moist~~	0.1	0.1	0	0
		47												
		48												
		49								wet	0.1	0.1	0	0
		50												

EOB 50' bgs

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.1

Remarks: see previous page TW 10-14, 26-30, 41-45

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-328
DATE: 6-17-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moriatis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 1059	1		2.5/5			Dk Brn	F-M sand and organics F-M sand tr. C. sand		Moist	0.1	0	0	0
	2					Light grey Brn	F-M sand tr. C sand and silt w/organics						
	3					Light Brn	F-M sand some C. sand			0	0	0	0
	4			▽			tr. small to large round pebbles		wet				
	5						↓			0	0	0	0
S-2 1105	6		4.5/5			Dk Brn	F-M sand some F. organics		wet	0	0	0	0
	7						tr. C sand and small round pebbles to some to Med						
	8					Brn	F-M sand tr. F organics		wet	0.2	0	0	0
	9						and small to med round pebbles						
	10						↓		wet	0	0	0	0
S-3 1109	11		4/5			Brn			wet	0.1	0	0	0
	12								flecks of mica				
	13								wet	0.3	0	0	0
	14												
	15					light Brn	↓		wet	0	0	0	0
S-4 1117	16		4.5/5			tan	F-M sand tr, C. sand		wet	0.3	0	0	0
	17						and small pebbles						
	18								wet	0.2	0	0	0
	19								flecks of mica				
	20						↓		wet	0.2	0	0	0
S-5 1126	21		5/5			tan	F-M Sand tr, silt		wet	0.2	0	0	0
	22												
	23									0.4	0	0	0
	24												
	25						↓			0.3	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.2

Remarks: 2"x5' macrocore samples w/ acetate liners (discrete samples)
Sample location near creek

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-328
DATE: 6-17-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-6 1137	26		5/5			tan to light Brn	F-M Sand tr. silt		Wet	0.4	0	0	0
	27						↓						
	28						↓		wet	0.5	0	0	0
	29					Brn/Gray	F-M sand tr. silt and F. organics		flecks of mica				
	30					tan	F-M Sand tr. silt		wet	0.5	0	0	0
S-7 1152	31		4.5/5			tan	F-M Sand tr. silt		wet	0.5	0	0	0
	32						↓			0			
	33						↓			0.5	0	0	0
	34						↓						
	35						↓		wet	0.5	0	0	0
S-8 1210	36		5/5			tan/gray	F-M sand tr. silt		wet	0.5	0	0	0
	37						↓						
	38						↓		wet	0.5	0	0	0
	39						↓		flecks of mica				
	40					light gray	↓		wet	0.5	0	0	0
S-9 1228	41					gray	Clay some silt		wet	0.5	0	0	0
	42						↓			1			
	43						↓			0.5	0	0	0
	44						↓						
	45						↓			0.5	0	0	0
S-10				EOB 45' bgs									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.4

Remarks: See previous page

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720DT

BORING No.: SA-TW-329
DATE: 6-18-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0850	SB1	1						No macro core				0		0
		2						samples taken until						
		3						35' bgs						
		4												
		5												
0851		6										0		0
		7												
		8												
		9												
		10												
0852		11										0		0
		12												
		13												
		14												
		15												
0854		16										0		0
		17												
		18												
		19												
		20												
0855		21										0		0
		22												
		23												
		24												
		25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: _____

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

10 14 11
40 44

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
DRILLING COMPANY: Zebra
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-TW-329
DATE: 6-18-10
GEOLOGIST: Jacob Birkett
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0857		26										0		0
		27												
		28												
		29												
		30												
0858		31										0		0
		32												
		33												
		34												
		35												
0902		36		5/5			tan to gray	F-M sand tr. silt Flecks of mica		wet	0	0.1	0	0
		37												
		38						↓		wet	0		0	
		39												
		40						↓		wet	0		0	
0928		41		5/5			tan to gray	F-M sand tr. silt Flecks of mica		wet	0	0	0	0
		42												
		43									0	0	0	0
		44												
		45					Gray	Clay some silt			0	0	0	0
					EOB 45' bgs									

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.1

Remarks: _____

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720.IT

BORING No.: SB-330 (~~325~~) JB 10-4-10
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Mosartis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1102	S-1	1					DK Brn	Silty Sand with leaves and roots		very moist	0	0	0	0
		2												
		3					wht Tan	F&R to M&R Sand Trace C&R sand - Fine pebbles		moist	0	0	0	0
		4		48"										
1103		5		60"							0	0	0	0
	S-2	6												
		7									0	0	0	0
		8					Tan wht	Same as above		moist				
		9		48"							0	0	0	0
1108		10		60"										
	S-3	11									0	0	0	0
		12												
		13					Tan wht	Same as above		very moist	0	0	0	0
		14		51"										
1112		15		60"							0	0	0	0
	S-4	16			▽					wet at 15.5'				
		17									0	0	0	0
		18					Tan wht	Same as above		wet (saturated)				
		19		49"							0	0	0	0
1118		20		60"										
	S-5	21									0	0	0	0
		22												
		23					wht				0	0	0	0
		24		51"			Brn Tan	Same as above		wet (saturated)				
1122		25		60"							0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: 2"X5' macrocore samples with Acetate Sleeves

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-330 (SB-325 JB 10-4-10)
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Mosaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	S-6	26					Brn Tan	FGR to MGR Sand Trace CGR Sand - Fine pebbles		wet (saturated)	0	0	0	0
		27						↓						
		28						↓			0	0	0	0
		29		58"			Brn Tan	Same as above		wet (saturated)				
1124	↓	30		60"				↓			0	0	0	0
	S-7	31						↓						
		32						↓			0	0	0	0
		33						↓						
		34		60"			Brn Tan	Same as above		wet (saturated)	0	0	0	0
1134	↓	35		60"				↓						
	S-8	36						↓			0	0	0	0
		37						↓						
		38						↓			0	0	0	0
		39		57"			Brn Tan	Same as above		wet (saturated)				
1145	↓	40		60"				↓			0	0	0	0
	S-9	41						↓						
		42						↓			0	0	0	0
		43						↓						
		44		59"			Brn Tan	Same as above (less MGR Sand)		wet (saturated)	0	0	0	0
1156	↓	45		60"				↓						
		46						↓			0	0	0	0
		47						↓						
		48						↓			0	0	0	0
		49		59"			Tan Brn	FGR Sand - Trace MGR Sand and Silt (micaceous)		wet (saturated)				
1208		50		60"				↓			0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SB-325 (330) JB 10-4-10
DATE: 3-29-10
GEOLOGIST: Vince Shickora
DRILLER: Even Moraitis

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
Time													
S-11	51					Tan Brn	FGR Sand - Trace MGR Sand and Silt.		wet (saturated)	0	0	0	0
↓	52						↓ (micaceous)						
	53									0	0	0	0
	54		60"				↓		wet (saturated)				
1232 ↓	55		60"			Brn Gry	Silty clay Trace VFGR sand		clay at 53.9'	0	0	0	0
	56			EOB									
	57												
	58												
	59												
	60												
	61												
	62												
	63												
	64												
	65												
	66												
	67												—
	68												
	69												
	70												
	71												
	72												
	73												
	74												
	75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (see page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-342
DATE: 6-28-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Moraitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1113	S-1	1					Brn	Silty FGR to MGR Sand - Trace pebbles		damp	0	0	0	0
		2												
		3					Brn Tan	FGR to MGR Sand Trace Silt Fine pebbles and CGR Sand		moist	0	0	0	0
		4												
		5		54" / 60"							0	0	0	0
1118	S-2	6					Wht Tan	Same as above						
		7								wet ~ 7.3' BGS	0	0	0	0
		8			▽									
		9		58" /							0	0	0	0
		10		60"			Wht Tan	Same as above		wet - No odors				
1122	S-3	11									0	0	0	0
		12												
		13									0	0	0	0
		14		58" /										
		15		60"			Wht Tan	Same as above (micaceous)		wet - No odors	0	0	0	0
1126	S-4	16												
		17												
		18									0	0	0	0
		19		60" /										
		20		60"			Brn Tan	Same as above (micaceous)		wet - No odors	0	0	0	0
1133	S-5	21												
		22									0	0	0	0
		23												
		24		58" /							0	0	0	0
		25		60"			Brn Tan	Same as above		wet - No odors				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: 2" x 5' macrocore sampling with Acetate liner

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-342
DATE: 6-28-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Mossitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1155	S-6	26					Brn Tan	FGR to MGR Sand Trace Silt CGR Sand		wet - No odors	0	0	0	0
	↓	27						and pebbles (microcores)						
		28						↓			0	0	0	0
		29		58"										
	↓	30		60"			Tan Brn	Same as above		wet - No odors	0	0	0	0
1213	S-7	31						↓						
	↓	32									0	0	0	0
		33												
		34		60"				↓			0	0	0	0
	↓	35		60"			Tan Brn	Same as above		wet - No odors				
1229	S-8	36						↓			0	0	0	0
	↓	37												
		38									0	0	0	0
		39		59"				↓						
	↓	40		60"			Tan Brn	Same as above		wet - No odors	0	0	0	0
1249	S-9	41						↓						
	↓	42									0	0	0	0
		43												
		44		60"				↓			0	0	0	0
	↓	45		60"			Tan Brn	Same as above		wet - No odors				
1345	S-10	46						↓			0	0	0	0
	↓	47												
		48									0	0	0	0
		49		60"				↓						
	↓	50		60"			Tan Brn	Same as above		wet - No odors	0	0	0	0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (see page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ZEBRA
DRILLING RIG: Geoprobe 7720 DT

BORING No.: SA-SB-342
DATE: 6-28-10
GEOLOGIST: Vince Shickora
DRILLER: Evan Mosaitis

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1408	S-11	51					Tan Brn	FGR to MGR Sand Trace Silt CGR Sand and pebbles (micaceous)		wet - No odors	0	0	0	0
		52												
		53									0	0	0	0
		54		59"										
		55		60"			Tan Brn	Same as above		wet - No odors	0	0	0	0
1450	S-12	56												
		57									0	0	0	0
		58												
		59		60"							0	0	0	0
		60		60"			Brn	Same as above		wet - No odors				
1530	S-13	61								clay at ~ 60.5'	0	0	0	0
		62					Gry Brn	Silty Clay, Trace VFGR Sand						
		63									0	0	0	0
		64												
		65					Gray	Same as above		wet - No odors	0	0	0	0
		66			EoB									
		67												
		68												
		69												
		70												
		71												
		72												
		73												
		74												
		75												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: (See page 1)

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

APPENDIX B

TEMPORARY WELL GROUNDWATER SAMPLE LOG SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-318-4650
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1458	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Ten cloudy	6.44	0.116	14.37	221.0	2.64	0.0	74

PURGE DATA: (gallons)

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.45	0.120	15.68	391	5.28	0.0	74
Monitor Reading (ppm): 0.0	2.0	6.39	0.117	14.99	288.2	3.69	0.0	82
Well Casing Diameter & Material	3.5	6.37	0.116	14.48	285.6	2.94	0.0	89
Type: 1" stainless steel	5.0	6.40	0.116	14.39	272.5	2.51	0.0	86
Total Well Depth (TD): 50'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1438								
End Purge (hrs): 1458								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	yes
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 46' to 50' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-319-3842
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10 / Time: 1640 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	6.67	0.086	14.68	32.4		0.0	

PURGE DATA: (gallons)

Date: 4-1-10 / Method: peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Monitor Reading (ppm): 0.0	0.5	7.11	0.099	15.22	190	4.11	0.0	65
Well Casing Diameter & Material	2.0	6.84	0.087	14.75	79.3	3.57	0.0	60
Type: 1" stainless steel	3.5	6.76	0.087	14.71	29.4	3.08	0.0	59
Total Well Depth (TD): 42	5.0	6.72	0.086	14.70	28.2	2.61	0.0	60
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1620								
End Purge (hrs): 1640								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	yes
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 38' to 42' BGS
- No odors, stains, elevated PID readings

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-319-4549
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 4-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1718	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	6.39	0.111	14.59	62.5	3.44	0.0	111

PURGE DATA: (gallons)

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.51	0.114	15.00	271	4.72	0.0	83
Monitor Reading (ppm): 0.0	2.0	6.53	0.112	14.76	156	4.48	0.0	98
Well Casing Diameter & Material	3.5	6.48	0.112	14.67	81.5	4.01	0.0	106
Type: 1" stainless steel	5.0	6.50	0.112	14.64	72.3	3.60	0.0	110
Total Well Depth (TD): 49'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1658								
End Purge (hrs): 1718								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml Vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml Vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	yes
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 45' to 49' BGS
- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page ___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-320-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 4-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0918	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.65	0.060	11.20	49.6	3.96	0.0	64

PURGE DATA:

Date: 4-1-10	(gallons) Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.43	0.151	11.72	435	6.48	0.0	104
Monitor Reading (ppm):	2.0	5.76	0.071	11.39	128	5.29	0.0	83
Well Casing Diameter & Material	3.5	5.78	0.063	11.34	137	4.41	0.0	74
Type: 1" stainless steel	5.0	5.70	0.061	11.29	67.2	4.04	0.0	69
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0902								
End Purge (hrs): 0918								
Total Purge Time (min): 16								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
(NO)			
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	NO
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	NO
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	NO

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-320-3034
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0955	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	6.44	0.216	14.00	180	2.28	0.0	+4

PURGE DATA: (gallons)

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.73	0.243	13.84	>2999	2.93	0.0	-16
Monitor Reading (ppm):	2.0	6.22	0.225	13.96	1407	2.40	0.0	-20
Well Casing Diameter & Material	3.5	6.35	0.220	13.90	605	2.51	0.0	-11
Type: 1" stainless steel	5.0	6.40	0.218	13.91	398	2.39	0.0	-5
Total Well Depth (TD): 34'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0935								
End Purge (hrs): 0955								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	yes
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone
- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD (Yes)

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-320-5155
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10 / Time: 1045	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	Tan Tint	6.37	0.116	14.14	97.8	2.92	0.0	63

PURGE DATA: (gallons)

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.59	0.127	14.71	331	3.30	0.0	-10
Monitor Reading (ppm):	2.0	6.58	0.118	14.40	161	3.25	0.0	26
Well Casing Diameter & Material	3.5	6.50	0.116	14.28	94.4	3.14	0.0	48
Type: 1" stainless steel	5.0	6.44	0.116	14.20	95.6	3.01	0.0	58
Total Well Depth (TD): 55'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1025								
End Purge (hrs): 1045								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	yes
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 51' to 55' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.: (1200 hours)
—	SA-TW-DUP02-0104 2010

Signature(s): VAS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-321-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1210	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Ten Tint	6.68	0.103	12.17	69.6	8.52	0.0	67

PURGE DATA: (gallons)

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.66	0.106	13.21	377	10.78	0.0	47
Monitor Reading (ppm): 0.0	2.0	6.64	0.103	12.51	111	10.08	0.0	51
Well Casing Diameter & Material	3.5	6.65	0.103	12.29	94.7	9.32	0.0	57
Type: 1" stainless steel	5.0	6.66	0.103	12.30	96.1	8.78	0.0	61
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1150								
End Purge (hrs): 1210								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	yes
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-321-3034
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1240	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	6.28	0.074	15.13	120	2.19	0.0	36

PURGE DATA: (gallons)

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.42	0.083	14.97	246	4.02	0.0	26
Monitor Reading (ppm):	2.0	6.38	0.075	15.15	172	3.29	0.0	28
Well Casing Diameter & Material	3.5	6.32	0.074	15.10	140	2.88	0.0	32
Type: 1" stainless steel	5.0	6.28	0.074	15.18	146	2.35	0.0	34
Total Well Depth (TD): 34'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1220								
End Purge (hrs): 1240								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	yes
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 30' to 34' BGS
- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-321-4953
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-1-10 / Time: 1326 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear (9 gallons)	6.12	0.107	15.17	27.9	2.38	0.0	93

PURGE DATA:

Date: 4-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.13	0.110	15.94	208	3.20	0.0	42
Monitor Reading (ppm): 0.0	2.0	6.18	0.108	15.42	170	2.70	0.0	61
Well Casing Diameter & Material	3.5	6.24	0.107	15.15	48.4	2.61	0.0	84
Type: 1" stainless steel	5.0	6.15	0.107	15.30	32.0	2.57	0.0	91
Total Well Depth (TD): 53'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1305								
End Purge (hrs): 1326								
Total Purge Time (min): 21								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	yes
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 49' to 53' BGS
- No odors, stains, elevated PID readings

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-322-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-2-10 / Time: 0920 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	Clear	6.40	0.055	11.58	35.8	6.89	0.0	124

PURGE DATA: (gallons)

Date: 4-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.01	0.100	12.41	168.7	8.69	0.0	145
Monitor Reading (ppm): 0.0	2.0	6.42	0.063	11.92	64.6	8.30	0.0	110
Well Casing Diameter & Material	3.5	6.49	0.058	11.69	39.1	7.72	0.0	112
Type: 1" stainless steel	5.0	6.42	0.056	11.60	44.3	7.33	0.0	118
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0900								
End Purge (hrs): 0920								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-322-2630
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-2-10 / Time: 0947	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	Tan Tint	6.05	0.071	13.77	47.0	2.09	0.0	100

PURGE DATA: (gallons)

Date: 4-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.97	0.074	13.46	129	4.31	0.0	98
Monitor Reading (ppm): 0.0	2.0	5.99	0.071	13.65	46.7	3.16	0.0	103
Well Casing Diameter & Material	3.5	6.02	0.071	13.74	22.1	2.58	0.0	106
Type: 1" stainless steel	5.0	6.04	0.071	13.80	34.0	2.15	0.0	106
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0927								
End Purge (hrs): 0947								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 26' to 30' BGS
- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-322-3842
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-2-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1023	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	6.40	0.137	14.62	29.3	2.82	0.0	79

PURGE DATA: (gallons)

Date: 4-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.91	0.135	14.48	66.3	4.15	0.0	86
Monitor Reading (ppm): 0.0	2.0	6.19	0.136	14.37	38.5	3.47	0.0	82
Well Casing Diameter & Material	3.5	6.33	0.137	14.44	36.6	2.96	0.0	80
Type: 1" stainless steel	5.0	6.41	0.137	14.59	41.3	3.03	0.0	78
Total Well Depth (TD): 42'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1003								
End Purge (hrs): 1023								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	Yes
Total metals	HNO3 (AT Lab)	1 x 250 ml poly	Yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 38' to 42' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-322-4549
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 4-2-10 / Time: 1103	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	clear	6.28	0.122	14.95	18.2	3.72	0.0	117

PURGE DATA: (gallons)

Date: 4-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.56	0.128	15.64	288	6.04	0.0	79
Monitor Reading (ppm): 0.0	2.0	6.48	0.126	15.05	123	4.70	0.0	90
Well Casing Diameter & Material	3.5	6.42	0.124	14.93	80.3	4.52	0.0	105
Type: 1" stainless steel	5.0	6.37	0.123	14.88	18.5	4.12	0.0	110
Total Well Depth (TD): 49'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1043								
End Purge (hrs): 1103								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 45' to 49' BGS

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-TW-DUP03-02042010

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

SA-TW-323-1418

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-323-~~1010~~ 1418 (VAS)
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1348	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.09	0.046	12.17	6.04	11.40	0.0	237

PURGE DATA: Gallons

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.61	0.058	13.49	148	11.46	0.0	89
Monitor Reading (ppm): 0.0	2.0	6.29	0.046	12.80	18.5	12.08	0.0	161
Well Casing Diameter & Material	3.5	5.88	0.046	12.39	9.80	12.13	0.0	199
Type: 1" stainless steel	5.0	5.34	0.046	12.26	8.28	11.56	0.0	226
Total Well Depth (TD): 16'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1320								
End Purge (hrs): 1348								
Total Purge Time (min): 28								
Total Vol. Purged (gal/L): 5.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 X 40 ml vials	Yes
Sample Split with Suffolk			
County Health Dept.			
↓			
VOCs	HCl	2 X 40 ml vials	yes
Total metals	HNO3 (at Lab)	1 X 250 ml poly	yes
Perchlorate (Field Filter)	None	1 X 60 ml poly Jar	yes
Inorganics (Nitrate/nitrite, etc)	None	1 X 250 ml poly	yes

OBSERVATIONS / NOTES:

Temporary well point screen zone 14' to 18' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-323-3034
Sample Location: Hosh House
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1430	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Ten Tint	5.70	0.044	14.53	169	6.09	0.0	132

PURGE DATA: (Gallons)

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.30	0.064	14.38	307	8.02	0.0	78
Monitor Reading (ppm): 0.0	2.0	5.75	0.046	14.57	155	7.11	0.0	100
Well Casing Diameter & Material	3.5	5.78	0.046	14.54	164	6.27	0.0	117
Type: 1" stainless steel	5.0	5.71	0.045	14.49	185	6.12	0.0	128
Total Well Depth (TD): 34'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1405								
End Purge (hrs): 1430								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Sample split with Suffolk			
County Health Dept.			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total Metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	yes
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 30' to 34' BGS

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: DWIRP Calverton
Project No.: 112601655

Sample ID No.: SA-TW-323-5256
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1525	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	6.15	0.099	14.78	370	4.66	0.0	81

PURGE DATA: (gallons)

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.91	0.114	14.89	1885	4.79	0.0	17
Monitor Reading (ppm): 0.0	2.0	6.24	0.099	14.90	259	4.93	0.0	55
Well Casing Diameter & Material	3.5	6.16	0.099	14.79	211	4.69	0.0	79
Type: 1" stainless steel	5.0	6.14	0.099	14.73	300	4.82	0.0	82
Total Well Depth (TD): 56'					370			
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1500								
End Purge (hrs): 1525								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 X 40 ml vials	Yes
Samples split with Suffolk			
County Health Dept.			
↓			
VOCs	HCl	2 X 40 ml vials	Yes
Total Metals	HNO3 (at Lab)	1 X 250 ml poly	Yes
Perchlorate (Field filter)	None	1 X 60 ml poly jar	Yes
Inorganics (Nitrate-Nitrite-etc)	None	1 X 250 ml poly	Yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 52' to 56' BGS
- No stains, odors, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-324-1216
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1015	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Peristaltic pump	Tan Tint	6.86	0.123	11.99	57.4	9.77	0.0	98

PURGE DATA: Gallons

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.07	0.222	11.72	332	8.95	0.0	102
Monitor Reading (ppm): 0.0	2.0	6.69	0.136	11.83	118	9.84	0.0	100
Well Casing Diameter & Material	3.5	6.78	0.127	11.94	90.1	9.79	0.0	95
Type: 2" stainless steel	5.0	6.80	0.124	12.06	71.4	9.73	0.0	96
Total Well Depth (TD): 16'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1000								
End Purge (hrs): 1015								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml Vials	yes
Split samples with Suffolk			
County Health Department			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (1st Lab)	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 12' to 16' BGS
- No stains, odors, elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-324-3034
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1058	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Ten Tint	6.47	0.070	14.94	155	3.88	0.0	43

PURGE DATA: Gallons

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.85	0.082	14.88	492	8.00	0.0	3
Monitor Reading (ppm): 0.0	2.0	6.80	0.072	14.95	225	5.03	0.0	16
Well Casing Diameter & Material	3.5	6.68	0.070	14.98	171	4.60	0.0	32
Type: 2" stainless steel	5.0	6.55	0.070	14.95	159	4.19	0.0	41
Total Well Depth (TD): 34'					155			
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1039								
End Purge (hrs): 1058								
Total Purge Time (min): 19								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Split samples with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total Metals	HNO_3 (at lab)	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 30' to 34' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-324-4549
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1145	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Brn-cloudy	6.24	0.099	14.89	614	5.18	0.0	72

PURGE DATA: Gallons

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.13	0.115	15.10	890	7.08	0.0	-7
Monitor Reading (ppm): 0.0	2.0	6.42	0.099	14.99	587	6.37	0.0	37
Well Casing Diameter & Material	3.5	6.36	0.099	14.89	574	5.90	0.0	55
Type: 2" stainless steel	5.0	6.29	0.099	14.91	599	5.66	0.0	66
Total Well Depth (TD): 49'								
Static Water Level (WL): NA ↓								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1126								
End Purge (hrs): 1145								
Total Purge Time (min): 19								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	Yes
Split samples with Suffolk			
County Health Department			
↓			
VOCs	HCl	2 x 40 ml vials	Yes
Total Metals	HNO_3 (at Lab)	1 x 250 ml poly	Yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 45' to 49' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-325-1822
Sample Location: Southern Area
Sampled By: KAS J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

SAMPLING DATA:

Date: 6-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1027	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	4.89	0.113	12.58	17.9	2.28	0.0	114

PURGE DATA:

Date: 6-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	0.5 gal	5.45	0.141	15.81	118	2.83	0.0	87	1005
Monitor Reading (ppm):	1.5 gal	5.14	0.122	13.81	67.1	2.31	0.0	107	1009
Well Casing Diameter & Material	2.5 gal	5.00	0.115	13.20	39.5	2.47	0.0	112	1013
Type: 1" stainless steel	3.5 gal	4.92	0.114	12.79	27.8	2.66	0.0	116	1017
Total Well Depth (TD): 22	4.5 gal	4.89	0.113	12.60	19.9	2.30	0.0	116	1020
Static Water Level (WL): NA	5.5 gal	4.89	0.113	12.58	17.9	2.28	0.0	114	1025
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1003									
End Purge (hrs): 1027									
Total Purge Time (min): 24									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone ~~32~~ 18-22' bgs

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-325-3236
Sample Location: Southern Area
Sampled By: KAS J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1107	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.51	0.059	14.18	12.2	2.19	0.0	54

PURGE DATA:

Date: 6-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	0.5 gal	5.36	0.072	14.98	147	2.91	0.0	40	1042
Monitor Reading (ppm):	1.5 gal	5.33	0.058	14.51	33.1	2.90	0.0	53	1046
Well Casing Diameter & Material	2.5 gal	5.34	0.058	14.11	17.9	2.51	0.0	61	1050
Type: 1" stainless steel	3.5 gal	5.42	0.058	14.25	14.6	2.33	0.0	57	1055
Total Well Depth (TD):	4.5 gal	5.42	0.059	13.93	13.4	2.28	0.0	59	1100
Static Water Level (WL): NA	5.5 gal	5.51	0.059	14.18	12.2	2.19	0.0	54	1105
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1040									
End Purge (hrs): 1107									
Total Purge Time (min): 27									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 32 to 36' bgs

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-325-5054
Sample Location: Southern Area
Sampled By: KAS J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1558	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	brown	5.85	0.113	22.14	Out of Range	0.33	0.0	-59

PURGE DATA:

Date: 6-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other	Time
Method: peristaltic pump	1 gal	6.36	0.124	20.71	Out of range	2.26	0.0	-113	1310
Monitor Reading (ppm):	1.5 gal	5.95	0.112	21.52	Out of rang	1.68	0.0	-13	1320
Well Casing Diameter & Material	2 gal	TW gas	Dry						1330
Type: 1" stainless steel	2 gal	6.42	0.094	20.98	Out of range	3.63	0.0	-44	1459 restr 1501
Total Well Depth (TD):	2.5 gal	5.85	0.113	22.14	Out of range	6.33	0.0	-59	1515
Static Water Level (WL): NA									
One Casing Volume(gal/L): ↓									
Start Purge (hrs): ~~1521~~ 1305									
End Purge (hrs): 1558									
Total Purge Time (min): —									
Total Vol. Purged (gal/L): 2.5 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	no
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 50 to 54' bgs Peristaltic pump not able to pump at this depth, hook up check valve at end w/ peristaltic still hooked up
- Well kept going dry or drawing so low that pump and check valve could not bring water up

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	~~SA-TW-Dup~~ No

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Wells
[] QA Sample Type:

Sample ID No.: SA-TW-326-1822
Sample Location: Southern Area
Sampled By: J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-18-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time:	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Peristaltic pump	clear	4.52	0.045	12.54	34.1	3.12	0.0	146

PURGE DATA:

Date: 6-18-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	OtherORP	Time
Method: Peristaltic pump	0.5 gal	5.77	0.071	19.00	261	5.45	0.0	70	1313
Monitor Reading (ppm):	1.5 gal	5.30	0.050	14.28	90.6	3.82	0.0	121	1315
Well Casing Diameter & Material	2.5 gal	4.66	0.048	12.95	57.3	3.04	0.0	148	1318
Type: 1" S.S	3.5 gal	4.53	0.047	12.57	52.0	2.98	0.0	151	1322
Total Well Depth (TD): 22	4.5 gal	4.51	0.047	12.53	45.4	2.75	0.0	151	1325
Static Water Level (WL): —	5.5 gal	4.52	0.045	12.54	34.1	3.12	0.0	146	1328
One Casing Volume(gal/L): —									
Start Purge (hrs): 1317									
End Purge (hrs): 1330									
Total Purge Time (min): 18									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL vials	yes
Sample Split w/ SCDHS			
↓			
VOCs	HCl	2 40mL vials	yes
Total Metals	HNO_3 (at lab)	1 250mL poly	yes

OBSERVATIONS / NOTES:

TW well screen point sample set From 18'-22'
Peristaltic pump doesn't adjust rate

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Jared Birkett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-326-3236
Sample Location: Southern Area
Sampled By: J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-18-10 / Time: 1355 / Method: low peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	5.42	0.087	13.38	14.8	2.60	0.0	82

PURGE DATA:

Date: 6-18-10 / Method: peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
	1 gal	5.10	0.091	14.44	120	4.10	0.0	61	1339
Monitor Reading (ppm):	2 gal	5.32	0.082	14.05	50.4	3.23	0.0	64	1342
Well Casing Diameter & Material Type: 1" SS	3 gal	5.37	0.088	13.75	47.9	3.12	0.0	74	1345
	4 gal	5.40	0.087	13.85	22.3	2.73	0.0	79	1348
Total Well Depth (TD): 36	5 gal	5.41	0.088	13.43	15.6	2.51	0.0	81	1350
Static Water Level (WL): —	6 gal	5.42	0.087	13.38	14.8	2.60	0.0	82	1352
One Casing Volume(gal/L): —									
Start Purge (hrs): 1337									
End Purge (hrs): 1355									
Total Purge Time (min): 18									
Total Vol. Purged (gal/L): 6.5 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL vial	yes
Samples split w/ SCDHS			
VOCs	HCl	2 40mL vial	yes
Total Metals	HNO_3 (at lab)	1 250mL poly	yes

OBSERVATIONS / NOTES:

TW well screen point sample set from 32-36'
No adjustable rate on pump

Circle if Applicable:

MS/MSD | Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-326-4246
Sample Location: Southern Area
Sampled By: J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-18-10 / Time: 1502 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	light brn t.cst	5.81	0.129	15.94	226	3.12	0.0	-25

PURGE DATA:

Date: 6-18-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: Peristaltic pump	0.5 gal	6.11	0.157	16.93	1404	3.04	0.0	-38	1430
Monitor Reading (ppm):	1 gal	6.21	0.136	16.27	297	2.18	0.0	-29	1436
Well Casing Diameter & Material	2.5 gal	5.81	0.133	16.38	342	2.23	0.0	17	1444
Type: 1" S.S	3.5 gal	5.96	0.136	15.98	271	3.00	0.0	13	1452
Total Well Depth (TD): 46	4.5 gal	5.81	0.129	15.94	226	3.12	0.0	25	1500
Static Water Level (WL): —									
One Casing Volume(gal/L):									
Start Purge (hrs): 1427									
End Purge (hrs): 1502									
Total Purge Time (min): 35									
Total Vol. Purged (gal/L): 4.5 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL	yes
Samples split w/ SCDHS			
VOCs	HCl	2 40mL vial	yes
Total Metals	HNO_3 (at lab)	1 250mL poly	yes

OBSERVATIONS / NOTES:

TW Well screen point sample set from 42-46'
Pump rate not adjustable
Very slow purge rate probably due to the head

Circle if Applicable:
MS/MSD | Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-317-1014
Sample Location: Southern Area
Sampled By: VAS J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

SAMPLING DATA:

Date: 6-22-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP
Time: 1331	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peristaltic pump	Clear	5.15	0.130	13.13	0.00	2.33	0.0	136

PURGE DATA:

Date: 6-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	0.5 gal	5.62	0.158	14.10	80.1	3.63	0.0	30	1317
Monitor Reading (ppm): —	1.5 gal	5.73	0.136	13.48	10.63	2.05	0.0	71	1320
Well Casing Diameter & Material	2.5 gal	5.33	0.133	13.18	0.00	2.24	0.0	104	1322
Type: 1" stainless steel	3.5 gal	5.21	0.133	13.26	0.00	2.44	0.0	120	1325
Total Well Depth (TD):	4.5 gal	5.17	0.133	13.08	0.00	2.19	0.0	130	1327
Static Water Level (WL): NA	5.5 gal	5.15	0.130	13.13	0.00	2.33	0.0	136	1329
One Casing Volume(gal/L): ↓									
Start Purge (hrs): ~~1218~~ 1316									
End Purge (hrs): 1331									
Total Purge Time (min): 15									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	no
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 10-14' bgs

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Vasil Birkett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-337-2630
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-22-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1306	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Clear	5.21	0.060	13.40	4.22	2.14	0.0	78

PURGE DATA:

Date: 6-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	0.5 gal	5.40	0.078	15.00	134	4.58	0.0	87	1251
Monitor Reading (ppm): —	2 gal	5.32	0.063	13.96	23.2	2.83	0.0	78	1254
Well Casing Diameter & Material	3 gal	5.30	0.061	13.99	10.83	2.41	0.0	78	1257
Type: 1" stainless steel	4 gal	5.23	0.060	13.42	8.72	2.38	0.0	82	1300
Total Well Depth (TD):	5 gal	5.20	0.061	13.58	6.56	2.63	0.0	82	1302
Static Water Level (WL): NA	6 gal	5.21	0.060	13.40	4.22	2.14	0.0	78	1304
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1250									
End Purge (hrs): 1306									
Total Purge Time (min): 16									
Total Vol. Purged (gal/L): 6.5 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	no
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 26 - 30' bgs

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-327-4145
Sample Location: Southern Area
Sampled By: MAS J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-22-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1238	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.24	0.123	14.00	23.2	2.01	0.0	102

PURGE DATA:

Date: 6-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	0.5 gal	5.87	0.222	16.99	99.7	3.66	0.0	58	1219
Monitor Reading (ppm):	1.5 gal	5.46	0.135	14.89	21.1	2.53	0.0	86	1222
Well Casing Diameter & Material	2.5 gal	5.26	0.128	14.33	19.2	2.38	0.0	99	1226
Type: 1" stainless steel	3.5 gal	5.22	0.125	14.11	18.3	2.01	0.0	102	1229
Total Well Depth (TD):	4.5 gal	5.22	0.124	14.24	25.7	1.69	0.0	104	1232
Static Water Level (WL): NA	5.5 gal	5.24	0.123	14.00	23.2	2.01	0.0	102	1236
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1218									
End Purge (hrs): 1238									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 41 - 45' bgs

Circle if Applicable:

MS/MSD | Duplicate ID No.: 1200 SA-Dup-01-06222010

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-328-0812
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-17-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1649	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic check valve pump	(1) slightly tan turbid (2) brown	5.98	0.083	15.09	—	4.30	0.0	20

PURGE DATA:

Date: 6-17-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	
Method: peristaltic check valve pump	0.5 gal				114				Time 1450
Monitor Reading (ppm): —	1 gal	5.50	0.139	17.43	55.9	5.44	0.0	48	1458 dry
Well Casing Diameter & Material	1.5 gal	5.98	0.083	15.09	47.3	4.30	0.0	20	1505 dry
Type: 1" stainless steel									1610
Total Well Depth (TD): 12	Use check valve to collect sample since well goes dry								1613 dry
Static Water Level (WL): NA	so Fast								1648
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1450									
End Purge (hrs): 1649									
Total Purge Time (min): —									
Total Vol. Purged (gal/L): 2 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	~~yes~~ no
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	~~yes~~ no
Perchlorate (field filter)	None	1 x 60 ml poly Jds	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	~~yes~~ no

OBSERVATIONS / NOTES:

- Temporary well point screen zone

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW328-2327
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-17-10 / Time: 1637 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	5.49	0.070	13.13	8.26	3.01	0.0	102

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Date: 6-17-10									
Method: peristaltic pump	1 gal	5.87	0.074	13.88	49.5	3.42	0.0	38	1623
Monitor Reading (ppm):	2 gal	5.62	0.071	13.42	16.1	3.30	0.0	71	1625
Well Casing Diameter & Material	3.5 gal	5.51	0.073	13.52	10.55	3.27	0.0	87	1628
Type: 1" stainless steel	5 gal	5.49	0.072	13.20	9.85	3.12	0.0	95	1630
Total Well Depth (TD): 27	6.5 gal	5.49	0.070	13.13	8.26	3.01	0.0	102	
Static Water Level (WL): NA	~~7.5 gal~~								
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1619									
End Purge (hrs): 1637									
Total Purge Time (min): 18									
Total Vol. Purged (gal/L): 7 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-328-3640
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-17-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1602	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	slight tan tint	5.42	0.126	15.05	83.7	2.61	0.0	72

PURGE DATA:

Date: 6-17-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump									1514
Monitor Reading (ppm):	0.25 gal	5.52	0.172	16.79	1146	12.04	0.0	22	1518
Well Casing Diameter & Material		shut down pump		fix connections air		in discharge			
Type: 1" stainless steel	1 gal	5.75	0.149	16.93	488	5.16	0.0	32	1533
Total Well Depth (TD): 40	2 gal	5.55	0.133	15.81	169	4.27	0.0	56	1537
Static Water Level (WL): NA	3 gal	5.39	0.131	15.50	125	3.41	0.0	79	1542
One Casing Volume(gal/L): ↓	4 gal	5.40	0.127	15.42	139	3.27	0.0	71	1547
Start Purge (hrs): 1514	5 gal	5.40	0.127	14.88	117	3.02	0.0	71	1553
End Purge (hrs): 1602	6 gal	5.42	0.126	15.05	83.7	2.61	0.0	72	1558
Total Purge Time (min): 38									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jds	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-329-1014
Sample Location: Southern Area
Sampled By: KAS J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-18-10 / Time: 1025 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	5.23	0.088	13.20	16.3	3.10	0.0	93

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Date: 6-18-10 / Method: peristaltic pump	1 gal	5.45	0.185	16.38	193	6.31	0.0	93	1008
Monitor Reading (ppm):	2 gal	5.71	0.109	15.11	42.6	3.58	0.0	60	1111
Well Casing Diameter & Material Type: 1" stainless steel	3 gal	5.64	0.097	14.41	27.0	2.91	0.0	64	1114
	4 gal	5.51	0.094	13.88	22.8	3.04	0.0	81	1118
Total Well Depth (TD): 14	5 gal	5.35	0.094	13.71	17.2	2.81	0.0	86	1121
Static Water Level (WL): NA	6 gal	5.23	0.088	13.20	16.3	3.10	0.0	93	1124
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1005									
End Purge (hrs): 1025									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly ✓ IDS	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	no

OBSERVATIONS / NOTES:

- Temporary well point screen zone

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-329-2630
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-18-10 / Time: 1058 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	5.74	0.083	14.25	11.6	3.41	0.0	84

PURGE DATA:

Date: 6-18-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	1 gal	6.16	0.096	14.90	86.3	4.04	0.0	24	1047
Monitor Reading (ppm):	2 gal	6.01	0.083	13.77	23.5	3.67	0.0	45	1049
Well Casing Diameter & Material	3 gal	5.77	0.087	13.78	75.5	3.53	0.0	63	1053
Type: 1" stainless steel	4 gal	5.73	0.084	13.81	23.1	3.31	0.0	74	1055
Total Well Depth (TD): 30	5 gal	5.72	0.084	14.26	10.49	3.81	0.0	85	1057
Static Water Level (WL): NA	6 gal	5.74	0.083	14.25	11.6	3.41	0.0	84	1058
One Casing Volume(gal/L): ↓									
Start Purge (hrs): 1045									
End Purge (hrs): 1058									
Total Purge Time (min): 13									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	no
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	no

OBSERVATIONS / NOTES:

- Temporary well point screen zone
- Pump speed variable and fast
- Pump shut off few times
- switched pump out, new pump no flow rate control

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G0165

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW329-4044
Sample Location: Southern Area
Sampled By: J. Birkett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-18-10 / Time: 1126	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: Peristaltic pump	clear	5.78	0.148	14.31	13.5	3.28	0.0	9

PURGE DATA:

Date: 6-18-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: peristaltic pump	0.5 gal	6.11	0.167	15.75	117	4.04	0.0	-16	1111
Monitor Reading (ppm):	1.5 gal	6.13	0.158	14.45	30.0	3.32	0.0	-12	1113
Well Casing Diameter & Material	2.5 gal	5.90	0.152	14.72	15.9	2.90	0.0	1	1115
Type: 1" S.S	3.5 gal	5.80	0.154	14.45	12.3	2.75	0.0	7	1118
Total Well Depth (TD): 44	4.5 gal	5.76	0.153	14.29	18.1	2.93	0.0	9	1121
Static Water Level (WL): —	5.5 gal	5.78	0.148	14.31	13.5	3.28	0.0	9	1124
One Casing Volume(gal/L): —									
Start Purge (hrs): 1110									
End Purge (hrs): 1126									
Total Purge Time (min): 16									
Total Vol. Purged (gal/L): 6 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	9 x 40 ml vials /MSMSD	yes
Samples split w/SCDHS			
VOCs	HCl	2 x 40mL vials	yes
Total metals	HNO_3 (at lab)	1 x 250 mL poly	yes
Inorganics (nitrate, nitrite, etc)	—	1 x 250mL poly	no

OBSERVATIONS / NOTES:

Temp well point screen zone 40-44
Pump does not have adjustable flow knob that works

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112601655

Sample ID No.: SA-TW-330-1822 (330 JB 9/20/10)
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10 / Time: 1655	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	Ten Tint	6.84	0.108	14.03	90.7	4.24	0.0	63

PURGE DATA:

Date: 3-31-10	(gallons) Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.90	0.101	14.23	379	5.70	0.0	56
Monitor Reading (ppm): 0.0	2.0	6.85	0.107	14.17	140	4.63	0.0	50
Well Casing Diameter & Material	3.5	6.87	0.108	14.10	109	4.29	0.0	54
Type: 1" stainless steel	5.0	6.85	0.108	14.08	101	4.33	0.0	57
Total Well Depth (TD): 22								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1638								
End Purge (hrs): 1655								
Total Purge Time (min): 17								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
No split sample collected with Suffolk County Health Dept			

OBSERVATIONS / NOTES:

- Temporary well point screen zone 18' to 22' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-325-3034 -330 SB 9-30-10
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1730	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	5.79	0.051	15.19	68.7	4.01	0.0	166

PURGE DATA: (gallons)

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.45	0.059	15.24	241	3.79	0.0	115
Monitor Reading (ppm): 0.0	2.0	6.16	0.052	15.28	89.7	3.88	0.0	143
Well Casing Diameter & Material	3.5	6.02	0.052	15.18	75.2	4.03	0.0	151
Type: 1" stainless steel	5.0	5.93	0.052	15.22	78.3	4.12	0.0	159
Total Well Depth (TD): 34				15.19	68.7			
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1712								
End Purge (hrs): 1730								
Total Purge Time (min): 18								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
No split sample with			
Suffolk County Health Dept.			

OBSERVATIONS / NOTES:

- Temporary well point screen zone 30' to 34'
- No odors, stains, elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112601655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-330-5054 (325 crossed out) JB 9/30/10
Sample Location: Hush House
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1835								
Method: peristaltic pump	Tan Tint	5.67	0.076	14.90	73.5	8.29	0.0	177

PURGE DATA:

Date: 3-31-10	(gallons) Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.72	0.085	14.85	811	8.32	0.0	131
Monitor Reading (ppm): 0.0	2.0	5.83	0.076	14.96	314	8.51	0.0	148
Well Casing Diameter & Material	3.5	5.77	0.076	14.98	149	8.83	0.0	169
Type: 1" stainless steel	5.0	5.68	0.076	14.93	70.4	8.49	0.0	175
Total Well Depth (TD): 54'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1816								
End Purge (hrs): 1835								
Total Purge Time (min): 19								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	Yes
No split samples collected with Suffolk County Health Dept			

OBSERVATIONS / NOTES:

- Temporary well point screen zone 50' to 54' BGS
- No odors, stains, elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-331-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10 / Time: 0935 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	clear	—	—	—	—	—	—	—

PURGE DATA:

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel								
Total Well Depth (TD): 15'			(No	Horiba	readings collected)			
Static Water Level (WL): NA				unit	not available			
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0915								
End Purge (hrs): 0935								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- Water was cloudy (Brown) at start of purge
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-331-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10 / Time: 1008 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	clear	–	–	–	–	–	–	–

PURGE DATA:

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel								
Total Well Depth (TD): 25'			(No Horiba readings collected					
Static Water Level (WL): NA				wait	not available)			
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0948								
End Purge (hrs): 1008								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- water was cloudy (Brown) at start of purge
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	DUP-01-20100602

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-331-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1040								
Method: peristaltic pump		—	—	—	—	—	—	—

PURGE DATA:

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel								
Total Well Depth (TD): 35'			(No Horiba readings collected)					
Static Water Level (WL): NA				unit not available				
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1020								
End Purge (hrs): 1040								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	NO
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- water was cloudy (Gray-Brown) at start of purge
- No odors or elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-332-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-1-10 / Time: 1337 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	Brown Tint	—	—	—	—	—	—	—

PURGE DATA:

Date: 6-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'			(NO	Horiba	readings collected)			
Static Water Level (WL): NA				unit	not available			
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1317								
End Purge (hrs): 1337								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 Ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 Ml Vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 Ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 Ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 Ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- water was cloudy (Brown) at start of purge
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112601655

Sample ID No.: SA-TW-332-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-1-10 / Time: 1400 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	clear	—	—	—	—	—	—	—

PURGE DATA:

Date: 6-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel								
Total Well Depth (TD): 25'			(No Horiba unit		readings collected not available)			
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1345								
End Purge (hrs): 1400								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- Water was cloudy (Brown) at start of purge
- No odors or elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-332-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-1-10 / Time: 1440	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: peristaltic pump	Tint-Tan	—	—	—	—	—	—	—

PURGE DATA:

Date: 6-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel			(No Horiba readings collected)					
Total Well Depth (TD): 35'				Unit not available				
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1425								
End Purge (hrs): 1440								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- water was cloudy (Brown) at start of purge
- No odors or elevated PID readings observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-333-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-1-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1120	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peristaltic pump	Clear	—	~	—	—	—	—	—

PURGE DATA:

Date: 6-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel		(No Horiba readings collected)						
Total Well Depth (TD): 15'		unit not available						
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1105								
End Purge (hrs): 1120								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- Water cloudy (Brown) at start of purge

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-333-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-1-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1149								
Method: peristaltic pump	clear	—	—	—	—	—	—	—

PURGE DATA:

Date: 6-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" stainless steel			(No Horiba readings collected)					
Total Well Depth (TD): 25'				unit not available				
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1134								
End Purge (hrs): 1149								
Total Purge Time (min): 15								
Total Vol. Purged (gal)/L): 6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- water very cloudy (Brown) at start of purge
- No odors / elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112601655

Sample ID No.: SA-TW-333-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-1-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1233								
Method: peristaltic pump	Cloudy (Brown)	—	—	—	—	—	—	—

PURGE DATA:

Date: 6-1-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" stainless steel		(No Horiba readings collected)						
Total Well Depth (TD): 35'			unit not available					
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1213								
End Purge (hrs): 1233								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- water was cloudy (Brown) at start of purge
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-334-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0814	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	4.98	0.063	12.11	14.7	2.51	0.0	177

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.01	0.077	13.11	978	3.02	0.0	50
Monitor Reading (ppm): 0.0	2.0	5.28	0.065	12.48	122.0	2.91	0.0	151
Well Casing Diameter & Material	4.0	5.08	0.064	12.07	36.4	2.62	0.0	160
Type: 1" stainless steel	6.0	4.98	0.063	12.11	14.7	2.51	0.0	177
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0754								
End Purge (hrs): 0814								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	No
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-334-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0840	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	6.18	0.126	12.50	29.6	6.12	0.0	95

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.74	0.130	12.51	850	4.94	0.0	30
Monitor Reading (ppm): 0.0	2.0	6.00	0.127	12.46	89.6	5.70	0.0	75
Well Casing Diameter & Material	4.0	6.16	0.127	12.29	45.5	5.82	0.0	81
Type: 1" stainless steel	6.0	6.18	0.126	12.50	29.6	6.12	0.0	95
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0820								
End Purge (hrs): 0840								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	No
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' zone
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	DUP-02-20100603

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-334-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6-3-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 0936								
Method: peristaltic pump	clear	6.27	0.156	12.96	2.5	2.40	0.0	

PURGE DATA: (Gallons)

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6-3-10								
Method: peristaltic pump	0.1	6.41	0.160	13.55	565	2.79	0.0	-79
Monitor Reading (ppm): 0.0	2.0	6.37	0.156	13.04	15.6	2.58	0.0	-68
Well Casing Diameter & Material	4.0	6.23	0.156	12.94	4.5	2.52	0.0	-64
Type: 1" stainless steel	6.0	6.27	0.156	12.96	2.5	2.40	0.0	-67
Total Well Depth (TD):								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0916								
End Purge (hrs): 0936								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	NO
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-335-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1208	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump		5.24	0.059	12.47	5.6	1.99	0.0	158

PURGE DATA: (Gallons)

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.79	0.100	14.53	118.0	2.77	0.0	75
Monitor Reading (ppm): 0.0	2.5	5.35	0.061	12.56	15.6	2.05	0.0	133
Well Casing Diameter & Material	5.5	5.24	0.059	12.47	5.6	1.99	0.0	158
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1148								
End Purge (hrs): 1208								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-336-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1235	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.83	0.127	13.25	5.0	1.70	0.0	100

PURGE DATA: (Gallons)

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.31	0.128	13.40	118.5	2.13	0.0	104
Monitor Reading (ppm): 0.0	2.5	5.72	0.134	13.27	9.9	1.78	0.0	97
Well Casing Diameter & Material	5.5	5.83	0.127	13.25	5.0	1.70	0.0	100
Type: 1" stainless steel								
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1215								
End Purge (hrs): 1235								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 5.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	NO
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-335-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10 / Time: 1303	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	clear	6.04	0.237	13.56	15.2	1.97	0.0	-16

PURGE DATA: (Gallons)

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	5.93	0.274	13.91	1357	1.39	0.0	-97
Monitor Reading (ppm): 0.0	1.5	6.16	0.241	13.68	276.0	1.90	0.0	-30
Well Casing Diameter & Material	3.0	6.06	0.238	13.66	58.1	2.21	0.0	-18
Type: 1" stainless steel	4.5	6.02	0.237	13.55	26.4	2.08	0.0	-19
Total Well Depth (TD): 35'	6.0	6.04	0.237	13.56	15.2	1.97	0.0	-16
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1243								
End Purge (hrs): 1303								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	NO
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-335-4145
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10 / Time: 1445 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	Ten Tint	5.34	0.097	13.55	114	4.31	0.0	70

PURGE DATA: (Gallons)

Date: 6-30-10 / Method: peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Monitor Reading (ppm): 0.0	0.1	6.28	0.132	15.88	997	2.74	0.0	-74
Well Casing Diameter & Material	1.5	6.16	0.102	14.63	214	3.22	0.0	-30
Type: 1" stainless steel	3.0	5.53	0.098	14.20	98.4	3.87	0.0	40
Total Well Depth (TD): 45'	4.5	5.39	0.097	13.81	107	4.16	0.0	62
Static Water Level (WL): NA	6.0	5.34	0.097	13.55	114	4.31	0.0	70
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1425								
End Purge (hrs): 1445								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	Yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	No
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 41' to 45' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: DUP-20100630

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-336-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10 / Time: 1535	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	clear	5.16	0.052	12.45	5.2	2.86	0.0	185

PURGE DATA: (Gallons)

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.5	6.27	0.065	14.60	158	3.34	0.0	50
Monitor Reading (ppm): 0.0	2.0	5.78	0.054	13.35	18.2	2.95	0.0	129
Well Casing Diameter & Material	4.0	5.28	0.053	12.62	9.5	2.92	0.0	174
Type: 1" stainless steel	6.0	5.16	0.052	12.45	5.2	2.86	0.0	185
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1515								
End Purge (hrs): 1535								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	Yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-336-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1602	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.23	0.068	13.45	3.3	3.45	0.0	186

PURGE DATA: (Gallons)

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.2	5.06	0.071	13.55	172.5	3.49	0.0	119
Monitor Reading (ppm): 0.0	2.0	5.13	0.067	13.15	33.3	3.43	0.0	166
Well Casing Diameter & Material	4.0	5.16	0.067	13.28	3.2	3.37	0.0	190
Type: 1" stainless steel	6.0	5.23	0.068	13.45	3.3	3.45	0.0	186
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1542								
End Purge (hrs): 1602								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	Yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	Yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	Yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-336-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-2-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1627	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	6.09	0.177	13.99	22.0	1.98	0.0	-29

PURGE DATA: (Gallons)

Date: 6-2-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.2	5.98	0.184	14.65	145.5	1.94	0.0	-57
Monitor Reading (ppm): 0.0	2.0	6.07	0.176	14.07	29.4	2.20	0.0	-30
Well Casing Diameter & Material	4.0	6.06	0.177	14.08	32.3	2.09	0.0	-27
Type: 1" stainless steal	6.0	6.09	0.177	13.99	22.0	1.98	0.0	-29
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1607								
End Purge (hrs): 1627								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (Field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-337-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1640	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.46	0.046	12.28	16.3	1.80	0.0	46

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.00	0.052	12.92	190	1.77	0.0	22
Monitor Reading (ppm): 0.0	2.0	5.74	0.047	12.34	38.7	1.70	0.0	43
Well Casing Diameter & Material	4.0	5.45	0.047	12.39	23.4	1.74	0.0	50
Type: 1" stainless steel	6.0	5.46	0.046	12.28	16.3	1.80	0.0	46
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1620								
End Purge (hrs): 1640								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly ✓ds	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Sample ID No.: SA-TW-337-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10 / Time: 1546	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	Tan Tint	5.18	0.088	12.48	44.3	2.26	0.0	106

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.77	0.095	14.35	186.4	2.84	0.0	74
Monitor Reading (ppm): 0.0	2.0	5.64	0.090	12.76	58.8	2.51	0.0	87
Well Casing Diameter & Material	4.0	5.30	0.088	12.61	50.1	2.40	0.0	103
Type: 1" stainless steel	6.0	5.18	0.088	12.48	44.3	2.26	0.0	106
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1526								
End Purge (hrs): 1546								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-337-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10 / Time: 1613 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	Tan Tint	6.13	0.154	13.33	82.5	1.79	0.0	-21

PURGE DATA: (Gallons)

Date: 6-3-10 / Method: peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material Type: 1" stainless steel	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
	0.1	5.68	0.134	13.99	324	1.72	0.0	-10
	2.0	5.81	0.151	13.29	113	1.80	0.0	-12
	4.0	5.97	0.154	13.38	80.4	1.83	0.0	-15
	6.0	6.13	0.154	13.33	82.5	1.79	0.0	-21

Total Well Depth (TD): 35'
Static Water Level (WL): NA
One Casing Volume(gal/L): ↓
Start Purge (hrs): 1553
End Purge (hrs): 1613
Total Purge Time (min): 20
Total Vol. Purged (gal/L): 6.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly ✓ Jds	No
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:
MS/MSD —
Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-338-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1328	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	4.82	0.043	12.49	20.1	1.91	0.0	

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.93	0.049	14.69	302	1.75	0.0	26
Monitor Reading (ppm): 0.0	2.0	5.57	0.045	12.74	37.9	2.00	0.0	52
Well Casing Diameter & Material	4.0	4.89	0.044	12.79	25.6	1.97	0.0	78
Type: 1" stainless steel	6.0	4.82	0.043	12.49	20.1	1.91	0.0	80
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1308								
End Purge (hrs): 1328								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml Vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml Vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- Slight "rotten-egg" odor observed - No elevated PID readings

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-338-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1354	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.76	0.083	12.39	18.0	1.94	0.0	47

PURGE DATA: (gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.61	0.087	13.04	683	1.72	0.0	-4
Monitor Reading (ppm): 0.0	2.0	5.68	0.084	12.57	23.2	1.93	0.0	20
Well Casing Diameter & Material	4.0	5.71	0.084	12.43	25.3	1.87	0.0	41
Type: 1" stainless steel	6.0	5.76	0.083	12.39	18.0	1.94	0.0	47
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1334								
End Purge (hrs): 1354								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	DUP-03-20100603

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-338-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1423	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	6.38	0.186	13.53	140		0.0	-56

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.10	0.189	14.10	2279	1.48	0.0	-84
Monitor Reading (ppm):	2.0	6.34	0.187	13.52	519	1.73	0.0	-70
Well Casing Diameter & Material	4.0	6.31	0.187	13.64	201	1.88	0.0	-58
Type: 1" stainless steel	6.0	6.38	0.186	13.53	140	1.82	0.0	-56
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1403								
End Purge (hrs): 1423								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly IDS	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD (yes)

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-339-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10 / Time: 1110 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	5.00	0.047	11.90	22.6	1.89	0.0	

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.72	0.055	12.86	237	1.98	0.0	30
Monitor Reading (ppm): 0.0	2.0	5.27	0.048	11.88	62.7	1.95	0.0	58
Well Casing Diameter & Material	4.0	4.98	0.047	12.05	33.2	2.02	0.0	74
Type: 1" stainless steel	6.0	5.00	0.047	11.90	22.6	1.89	0.0	65
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1050								
End Purge (hrs): 1110								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- slight "rotten-egg" odor observed - No elevated PID readings

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-339-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-3-10 / Time: 1137 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	Tan Tint	6.00	0.055	12.24	88.9	2.18	0.0	26

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.88	0.063	12.79	965	1.90	0.0	-39
Monitor Reading (ppm): 0.0	2.0	5.89	0.059	12.20	274	1.96	0.0	-17
Well Casing Diameter & Material	4.0	5.99	0.056	12.37	99.4	2.22	0.0	8
Type: 1" stainless steel	6.0	6.00	0.055	12.24	88.9	2.18	0.0	26
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1117								
End Purge (hrs): 1137								
Total Purge Time (min):								
Total Vol. Purged (gal): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO3 (at Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-339-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-3-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1205	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	6.30	0.074	13.72	139	1.62	0.0	-36

PURGE DATA: (Gallons)

Date: 6-3-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.14	0.078	13.76	851	1.89	0.0	-67
Monitor Reading (ppm): 0.0	2.0	6.22	0.075	13.56	171	1.67	0.0	-51
Well Casing Diameter & Material	4.0	6.24	0.074	13.64	129	1.79	0.0	-38
Type: 1" stainless steel	6.0	6.30	0.074	13.72	139	1.62	0.0	-36
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1145								
End Purge (hrs): 1205								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-340-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10 / Time: 1220	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	Tan Tint	5.49	0.084	14.68	69.2	6.02	0.0	112

PURGE DATA: (Gallons)

Date: 6-30-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.07	0.094	16.91	248	6.40	0.0	34
Monitor Reading (ppm): 0.0	1.5	6.03	0.088	15.45	78.2	6.28	0.0	47
Well Casing Diameter & Material	3.0	5.71	0.085	14.97	69.9	6.30	0.0	79
Type: 1" stainless steel	4.5	5.52	0.084	14.79	61.5	6.21	0.0	101
Total Well Depth (TD): 25'	6.0	5.49	0.084	14.68	69.2	6.02	0.0	112
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1200								
End Purge (hrs): 1220								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	No
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-341-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1155	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	4.67	0.062	13.88	2.9	7.82	0.0	250

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.90	0.071	17.45	135	8.61	0.0	106
Monitor Reading (ppm):	1.5	5.36	0.063	14.68	3.8	8.42	0.0	171
Well Casing Diameter & Material	3.0	4.78	0.063	14.17	4.1	8.13	0.0	224
Type: 1" stainless steel	4.5	4.68	0.062	14.03	4.4	7.94	0.0	240
Total Well Depth (TD):	6.0	4.67	0.062	13.88	2.9	7.82	0.0	250
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1135								
End Purge (hrs): 1155								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-341-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1228	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	6.18	0.097	17.28	2.8	6.40	0.0	54

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.12	0.131	18.67	1084	6.38	0.0	35
Monitor Reading (ppm): 0.0	1.5	6.27	0.112	16.99	384	6.42	0.0	35
Well Casing Diameter & Material	3.0	6.27	0.103	17.12	30.8	6.50	0.0	33
Type: 1" stainless steel	4.5	6.22	0.097	17.17	6.3	6.47	0.0	49
Total Well Depth (TD): 25'	6.0	6.18	0.097	17.28	2.8	6.40	0.0	54
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1208								
End Purge (hrs): 1228								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-341-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1304	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Brn Tint	5.72	0.186	14.29	142	2.19	0.0	48

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.03	0.217	16.16	920	3.44	0.0	-32
Monitor Reading (ppm): 0.0	1.5	5.94	0.195	15.23	468	2.83	0.0	-5
Well Casing Diameter & Material	3.0	5.70	0.189	14.45	193	2.52	0.0	30
Type: 1" stainless steel	4.5	5.71	0.187	14.41	159	2.30	0.0	46
Total Well Depth (TD): 35'	6.0	5.72	0.186	14.29	142	2.19	0.0	48
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1244								
End Purge (hrs): 1304								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (at lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-341-4145
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1351	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	5.30	0.164	14.98	176	3.96	0.0	140

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.91	0.172	18.20	209	4.25	0.0	107
Monitor Reading (ppm): 0.0	1.5	5.83	0.167	16.02	196	3.99	0.0	107
Well Casing Diameter & Material	3.0	5.52	0.163	15.40	162	4.08	0.0	123
Type: 1" stainless steel	4.5	5.33	0.163	15.20	190	4.01	0.0	135
Total Well Depth (TD): 45'	6.0	5.30	0.164	14.98	176	3.96	0.0	140
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1331								
End Purge (hrs): 1351								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 41' to 45' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-342-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0846	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.70	0.073	16.06	7.0	9.80	0.0	169

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.12	0.128	18.45	170.7	10.49	0.0	167
Monitor Reading (ppm): 0.0	1.5	6.03	0.080	16.83	37.3	10.18	0.0	169
Well Casing Diameter & Material	3.0	5.79	0.075	16.17	8.6	9.96	0.0	172
Type: 1" stainless steel	4.5	5.70	0.074	16.08	9.3	9.89	0.0	168
Total Well Depth (TD): 15'	6.0	5.70	0.073	16.06	7.0	9.80	0.0	169
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0824								
End Purge (hrs): 0846								
Total Purge Time (min): 22								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-342-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0909	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Gry Tint	5.91	0.170	14.78	80.2	1.97	0.0	-30

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.16	0.189	16.19	621	3.02	0.0	-62
Monitor Reading (ppm): 0.0	1.5	6.10	0.173	15.34	184	2.43	0.0	-49
Well Casing Diameter & Material	3.0	5.91	0.171	14.93	131	2.19	0.0	-28
Type: 1" stainless steel	4.5	5.89	0.169	14.69	143	2.08	0.0	-23
Total Well Depth (TD): 25'	6.0	5.91	0.170	14.78	80.2	1.97	0.0	-30
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0845								
End Purge (hrs): 0909								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle If Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-342-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0948	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	5.89	0.178	15.22	169	1.83	0.0	36

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.12	0.199	15.71	721	2.36	0.0	-63
Monitor Reading (ppm): 0.0	1.5	6.03	0.179	15.45	498	1.95	0.0	-2
Well Casing Diameter & Material	3.0	5.90	0.177	15.08	230	1.74	0.0	23
Type: 1" stainless steel	4.5	5.88	0.177	15.16	195	1.80	0.0	37
Total Well Depth (TD): 35'	6.0	5.89	0.178	15.22	169	1.83	0.0	36
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0928								
End Purge (hrs): 0948								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
-	DUP-20100629

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-342-4145
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1053	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Brn Tint	5.37	0.105	16.03	186	6.95	0.0	126

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.42	0.114	18.20	249	6.62	0.0	28
Monitor Reading (ppm): 0.0	1.5	6.17	0.108	17.18	240	6.80	0.0	60
Well Casing Diameter & Material	3.0	5.56	0.106	16.17	195	6.89	0.0	103
Type: 1" stainless steel	4.5	5.38	0.106	16.12	177	6.92	0.0	122
Total Well Depth (TD): 45'	6.0	5.37	0.105	16.03	186	6.95	0.0	126
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1033								
End Purge (hrs): 1053								
Total Purge Time (min): 20								
Total Vol. Purged (gal): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 41' to 45' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD (Yes)

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-343-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1512	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	4.70	0.035	16.74	4.5	12.31	0.0	267

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.93	0.046	19.28	159	12.43	0.0	192
Monitor Reading (ppm): 0.0	1.5	5.71	0.037	17.74	71.0	12.49	0.0	210
Well Casing Diameter & Material	3.0	5.11	0.035	16.65	22.7	12.54	0.0	245
Type: 1" stainless steel	4.5	4.77	0.035	16.70	11.3	12.16	0.0	269
Total Well Depth (TD): 15'	6.0	4.70	0.035	16.74	4.5	12.21	0.0	267
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1452								
End Purge (hrs): 1512								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-343-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1537	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	Tan Tint	5.90	0.111	14.88	90.2	1.84	0.0	-64

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.36	0.119	16.64	447	2.52	0.0	-34
Monitor Reading (ppm): 0.0	1.5	5.71	0.112	15.20	134	2.03	0.0	-48
Well Casing Diameter & Material	3.0	5.82	0.111	14.92	100	1.82	0.0	-55
Type: 1" stainless steel	4.5	5.86	0.111	14.80	86.6	1.87	0.0	-61
Total Well Depth (TD): 25'	6.0	5.90	0.111	14.88	90.2	1.84	0.0	-64
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1517								
End Purge (hrs): 1537								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-343-3135
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10 / Time: 1606 / Method: peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	Brn Tint	5.96	0.229	14.97	179	1.61	0.0	-57

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.14	0.297	16.26	1143	1.22	0.0	-110
Monitor Reading (ppm): 0.0	1.5	6.09	0.237	15.25	250	1.26	0.0	-67
Well Casing Diameter & Material	3.0	5.96	0.228	14.93	184	1.41	0.0	-53
Type: 1" stainless steel	4.5	5.91	0.228	14.95	180	1.53	0.0	-48
Total Well Depth (TD): 35'	6.0	5.96	0.229	14.97	179	1.61	0.0	-57
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1546								
End Purge (hrs): 1606								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 31' to 35' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-343-4145
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10 / Time: 1659	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: peristaltic pump	Tan Tint	5.59	0.107	16.21	85.4	7.35	0.0	84

PURGE DATA: (Gallons)

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	6.23	0.117	17.04	253	5.36	0.0	-16
Monitor Reading (ppm): 0.0	1.5	6.06	0.109	16.75	114	6.42	0.0	23
Well Casing Diameter & Material	3.0	5.83	0.108	16.26	91.5	7.30	0.0	52
Type: 1" stainless steel	4.5	5.65	0.108	16.30	98.4	7.32	0.0	75
Total Well Depth (TD): 45'	6.0	5.59	0.107	16.21	85.4	7.35	0.0	84
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1639								
End Purge (hrs): 1659								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	No
Perchlorate (Field Filter)	None	1 x 60 ml poly Jar	No
Inorganics (Nitrate - Nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 41' to 45' BGS

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-TW-344-1115
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0924	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.76	0.060	16.34	2.2	11.01	0.0	118

PURGE DATA: (Gallons)

Date: 6-30-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.94	0.125	17.79	337	9.77	0.0	39
Monitor Reading (ppm): 0.0	1.5	6.05	0.067	16.73	22.7	10.23	0.0	58
Well Casing Diameter & Material	3.0	5.99	0.062	16.28	8.4	10.91	0.0	82
Type: 1" stainless steel	4.5	5.83	0.060	16.31	3.3	10.95	0.0	90
Total Well Depth (TD): 15'	6.0	5.76	0.060	16.34	2.2	11.01	0.0	118
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0904								
End Purge (hrs): 0924								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	No
Total metals	HNO_3 (At Lab)	1 x 250 ml poly	No
Perchlorate (field filter)	None	1 x 60 ml poly Jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	No

OBSERVATIONS / NOTES:

- Temporary well point screen zone 11' to 15' BGS
- No odors or elevated PID readings observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW-344-2125
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0950	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: peristaltic pump	clear	5.93	0.173	14.67	3.8		0.0	

PURGE DATA: (Gallons)

Date: 6-30-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	5.93	0.189	15.60	712	2.90	0.0	-56
Monitor Reading (ppm): 0.0	1.5	5.92	0.180	15.01	502	2.21	0.0	-59
Well Casing Diameter & Material	3.0	5.92	0.176	14.90	346	1.94	0.0	-57
Type: 1" stainless steel	4.5	5.93	0.174	14.63	61.9		0.0	-53
Total Well Depth (TD): 25'	6.0	5.93	0.173	14.67	3.8		0.0	-52
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0930								
End Purge (hrs): 0950								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	yes
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	2 x 40 ml vials	yes
Total metals	HNO_3 (AT Lab)	1 x 250 ml poly	yes
Perchlorate (field filter)	None	1 x 60 ml poly jar	No
Inorganics (nitrate - nitrite - etc)	None	1 x 250 ml poly	yes

OBSERVATIONS / NOTES:

- Temporary well point screen zone 21' to 25' BGS
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: CTO-WE08

Sample ID No.: SA-TW-345
Sample Location: SA-TW-345
Sampled By: Vince Shickora
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-28-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: peristaltic pump	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: 1000 hours	very cloudy (Gy)	6.93	0.170	18.40	>999	2.28	0.0	-77

PURGE DATA:

Date: 6-28-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	0.1	7.01	0.175	18.67	>999	2.40	0.0	-68
Monitor Reading (ppm): 0.0	1.5	NA						
Well Casing Diameter & Material	3.0							
Type: 1" steel	4.5							
Total Well Depth (TD): 45'	6.0							
Static Water Level (WL): NA								
One Casing Volume(gal/L):								
Start Purge (hrs): 0937								
End Purge (hrs): 1000								
Total Purge Time (min): 23								
Total Vol. Purged (gal/L): 0.15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 X 40 Ml Vials	yes
Samples Split with SCHD			
↓			
VOCs	Hcl	2 X 40 Ml vials	yes
Total Metals	HNO_3	1 X 500 Ml poly	yes
Inorganics (Nitrates, etc)	None	1 X 500 Ml poly	yes

OBSERVATIONS / NOTES:

Temporary groundwater well screen interval 41' to 45' BGS
- well set in very Tight zone - unable to complete full purge. Collected Grab sample after ~ 0.15 gallon purge
- No odors or elevated PID readings observed.
- Water was very cloudy (Gray)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW346-1115
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10 / Time: 1245 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	clear	6.13	0.089	19.9	4.23	2.59	0.0	32

PURGE DATA: *(Gallons)*

Date: 9-7-10 / Method: Peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.13	0.108	20.2	1121	2.12	0.0	19
Monitor Reading (ppm): 0.0	2	6.13	0.092	20.3	60.8	2.30	0.0	27
Well Casing Diameter & Material	3.5	6.14	0.090	20.1	8.45	2.66	0.0	32
Type: 1" Stainless	5	6.13	0.089	19.9	4.23	2.59	0.0	32
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1230								
End Purge (hrs): 1245								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 11 ft to 15 ft.
- No odors or stains observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW346-2125
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1309	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	6.22	0.167	18.0	140	2.18	0.0	-24

PURGE DATA: *(Gallons)*

Date: 9-7-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.35	0.192	18.6	573	1.92	0.0	-40
Monitor Reading (ppm): 0.0	2	6.31	0.170	18.1	110	2.88	0.0	-36
Well Casing Diameter & Material	3.5	6.26	0.167	18.1	128	2.57	0.0	-29
Type: 1" Stainless	5	6.22	0.167	18.0	140	2.18	0.0	-24
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1254								
End Purge (hrs): 1309								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 21 ft to 25 ft.
- No odors or stains observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW346-3135
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1335	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan	5.96	0.156	17.0	366	4.31	0.0	35

PURGE DATA: *(Gallons)*

Date: 9-7-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.21	0.181	17.5	1240	3.23	0.0	-48
Monitor Reading (ppm): 0.0	2	6.05	0.162	17.1	375	4.08	0.0	-3
Well Casing Diameter & Material	3.5	6.01	0.155	17.0	360	4.29	0.0	24
Type: 1" Stainless	5	5.96	0.156	17.0	366	4.31	0.0	35
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1320								
End Purge (hrs): 1335								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 31 ft to 35 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD (yes)

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW346-4145
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10 / Time: 1430 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan Tint	6.22	0.146	18.9	240	4.01	0.0	11

PURGE DATA: *(Gallons)*

Date: 9-7-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.44	0.179	20.6	1638	1.19	0.0	-55
	2	6.47	0.167	19.7	1555	2.03	0.0	-52
	3.5	6.35	0.154	19.3	1497	3.17	0.0	-20
	5	6.22	0.146	18.9	240	4.01	0.0	11

Total Well Depth (TD): 45'
Static Water Level (WL): NA
One Casing Volume(gal/L): ↓
Start Purge (hrs): 1415
End Purge (hrs): 1430
Total Vol. Purged (gal/L): 4.5

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 41 ft to 45 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW347-1115
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1220	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	clear	6.38	0.083	15.9	13.4	2.15	0.0	-39

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.28	0.104	18.2	1129	1.86	0.0	-22
Monitor Reading (ppm): 0.0	2	6.34	0.090	16.8	788	1.80	0.0	-38
Well Casing Diameter & Material	3.5	6.39	0.086	16.2	406	1.97	0.0	-40
Type: 1" Stainless	5	6.38	0.083	15.9	13.4	2.15	0.0	-39
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1205								
End Purge (hrs): 1220								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 11 ft to 15 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	–

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW347-2125
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1243	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	~~slight~~ Tan Tint	5.52	0.087	14.2	30.0	2.17	0.0	41

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.95	0.123	15.6	1330	2.11	0.0	-22
Monitor Reading (ppm): 0.0	2	5.67	0.094	14.8	401	2.20	0.0	6
Well Casing Diameter & Material	3.5	5.56	0.091	14.6	116	2.15	0.0	27
Type: 1" Stainless	5	5.52	0.087	14.2	30.0	2.17	0.0	41
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1228								
End Purge (hrs): 1243								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 21 ft to 25 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW347-3135
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1309	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	clear	5.65	0.098	14.6	19.0	4.53	0.0	57

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.09	0.140	15.2	1790	1.51	0.0	-44
Monitor Reading (ppm): 0.0	2	5.86	0.107	14.7	618	3.80	0.0	8
Well Casing Diameter & Material	3.5	5.67	0.099	14.6	100	4.48	0.0	42
Type: 1" Stainless	5	5.65	0.098	14.6	19.0	4.53	0.0	57
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1254								
End Purge (hrs): 1309								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 31 ft to 35 ft.

Circle if Applicable:

MS/MSD	Duplicate ID No.: (1600)	Signature(s):
—	SA-TWDUP03-20100909	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW348-1115
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10 / Time: 1444 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	clear	5.74	0.071	16.3	9.4		0.0	126

PURGE DATA: *(Gallons)*

Date: 9-9-10
Method: Peristaltic pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 1" Stainless
Total Well Depth (TD): 15'
Static Water Level (WL): NA
One Casing Volume(gal/L): ↓
Start Purge (hrs): 1429
End Purge (hrs): 1444
Total Purge Time (min): 15
Total Vol. Purged (gal/L): 5.0

Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
0.5	5.76	0.090	18.3	819	3.39	0.0	90
2	5.78	0.075	17.2	327	3.21	0.0	110
3.5	5.76	0.072	16.6	71.1	3.22	0.0	119
5	5.74	0.071	16.3	9.4	3.33	0.0	126

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 11 ft to 15 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW348-2125
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1504	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Slight Tan Tint	6.19	0.303	14.4	37.2	1.96	0.0	-59

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.18	0.321	15.7	128.3	1.90	0.0	-37
Monitor Reading (ppm): 0.0	2	6.20	0.307	14.8	919	1.86	0.0	-57
Well Casing Diameter & Material	3.5	6.20	0.304	14.5	206	1.75	0.0	-62
Type: 1" Stainless	5	6.19	0.303	14.4	37.2	1.96	0.0	-59
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1449								
End Purge (hrs): 1504								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 21 ft to 25 ft.
- No odors or stains observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW348-3135
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10 / Time: 1526 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tea	5.91	0.146	14.0	221	1.40	0.0	-6

PURGE DATA: *(Gallons)*

Date: 9-9-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.19	0.185	14.8	1761	0.86	0.0	-72
	2	6.02	0.151	14.3	866	1.19	0.0	-30
	3.5	5.93	0.147	14.0	523	1.31	0.0	-14
	5	5.91	0.146	14.0	221	1.40	0.0	-6

Total Well Depth (TD): 35'
Static Water Level (WL): NA
One Casing Volume(gal/L): ↓
Start Purge (hrs): 1511
End Purge (hrs): 1526
Total Vol. Purged (gal/L): 5.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 31 ft to 35 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW349-1115
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1039	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	clear	5.97	0.094	16.6	35.2	3.61	0.0	8

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.20	0.157	18.2	1273	1.81	0.0	-7
Monitor Reading (ppm): 0.0	2	6.48	0.108	16.9	398	3.44	0.0	-29
Well Casing Diameter & Material	3.5	6.24	0.103	16.8	287	4.44	0.0	-10
Type: 1" Stainless	5	5.97	0.094	16.6	35.2	3.61	0.0	8
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1024								
End Purge (hrs): 1039								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NC
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 11 ft to 15 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW349-2125
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1058	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tea Tint	5.78	0.171	13.9	60.3	2.07	0.0	10

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.94	0.228	15.6	973	1.68	0.0	-22
Monitor Reading (ppm): 0.0	2	5.87	0.176	14.5	540	1.83	0.0	-3
Well Casing Diameter & Material	3.5	5.80	0.172	14.1	398	2.00	0.0	6
Type: 1" Stainless	5	5.78	0.171	13.9	60.3	2.07	0.0	10
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1043								
End Purge (hrs): 1058								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 21 ft to 25 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW349-3135
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-9-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1124	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.71	0.171	13.7	71.1	2.10	0.0	27

PURGE DATA: *(Gallons)*

Date: 9-9-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.88	0.214	14.6	1468	1.96	0.0	-13
Monitor Reading (ppm): 0.0	2	5.76	0.178	13.9	877	1.83	0.0	6
Well Casing Diameter & Material	3.5	5.73	0.173	13.8	401	1.94	0.0	18
Type: 1" Stainless	5	5.71	0.171	13.7	71.1	2.10	0.0	27
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1109								
End Purge (hrs): 1124								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 31 ft to 35 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW350-1115
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1526	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	clear	6.30	0.110	20.3	19.2	1.91	0.0	-57

PURGE DATA: *(Gallons)*

Date: 9-7-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.36	0.117	20.6	255	1.79	0.0	-42
Monitor Reading (ppm): 0.0	2	6.31	0.111	20.5	71.3	1.88	0.0	-53
Well Casing Diameter & Material	3.5	6.30	0.110	20.3	45.7	2.20	0.0	-55
Type: 1" Stainless	5	6.30	0.110	20.3	19.2	1.91	0.0	-57
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1511								
End Purge (hrs): 1526								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 11 ft to 15 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW350-2125
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10 / Time: 1549 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan Tint	5.93	0.141	17.2	76.4	1.88	0.0	-19

PURGE DATA: *(Gallons)*

Date: 9-7-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.16	0.159	18.1	1022	1.50	0.0	-45
	2	6.05	0.145	17.3	83.1	1.67	0.0	-32
	3.5	5.97	0.142	17.2	78.3	1.70	0.0	-25
	5	5.93	0.141	17.2	76.4	1.88	0.0	-19

Total Well Depth (TD):	25'
Static Water Level (WL):	NA
One Casing Volume(gal/L):	↓
Start Purge (hrs):	1534
End Purge (hrs):	1549
Total Purge Time (min):	15
Total Vol. Purged (gal/L):	5.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 21 ft to 25 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW350-3135
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1610	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.84	0.135	16.3	137	6.31	0.0	65

PURGE DATA: *(Gallons)*

Date: 9-7-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.07	0.158	17.3	1124	3.00	0.0	-30
Monitor Reading (ppm): 0.0	2	5.99	0.136	16.7	201	4.19	0.0	13
Well Casing Diameter & Material	3.5	5.87	0.135	16.5	130	5.20	0.0	49
Type: 1" Stainless	5	5.84	0.135	16.3	137	6.31	0.0	65
Total Well Depth (TD): 35'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1555								
End Purge (hrs): 1610								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 31 ft to 35 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW351-1115
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10 / Time: 1018 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan Tint	5.22	0.050	19.5	83	1.73	0.0	33

PURGE DATA: *(Gallons)*

Date: 9-7-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	5.81	0.124	20.6	717	1.52	0.0	-34
	2	5.62	0.059	19.6	279	1.60	0.0	-6
	3.5	5.33	0.051	19.5	142	1.66	0.0	19
	5	5.22	0.050	19.5	83	1.73	0.0	33

Total Well Depth (TD): 15'
Static Water Level (WL): NA
One Casing Volume(gal/L): ↓
Start Purge (hrs): 1003
End Purge (hrs): 1018
Total Purge Time (min): 15
Total Vol. Purged (gal/L): 5.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 11 ft to 15 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW351-2125
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10 / Time: 1038 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan	5.08	0.104	16.7	190	1.98	0.0	64

PURGE DATA: *(Gallons)*

Date: 9-7-10 / Method: Peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	5.17	0.131	17.3	614	1.92	0.0	20
Monitor Reading (ppm): 0.0	2	5.08	0.109	17.1	202	1.83	0.0	37
Well Casing Diameter & Material	3.5	5.08	0.105	16.9	213	2.09	0.0	55
Type: 1" Stainless	5	5.08	0.104	16.7	190	1.98	0.0	64
Total Well Depth (TD): 25'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1023								
End Purge (hrs): 1038								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 21 ft to 25 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.: Time → 1200
-	SA-TWDUP01-20100907

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW351-3135
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10 / Time: 1105 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan	5.64	0.110	16.1	388	5.99	0.0	86

PURGE DATA: *(Gallons)*

Date: 9-7-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	5.93	0.135	16.4	1348	5.18	0.0	-2
	2	5.79	0.113	16.1	1103	5.70	0.0	37
	3.5	5.63	0.110	16.1	396	5.91	0.0	65
	5	5.64	0.110	16.1	388	5.99	0.0	86

Total Well Depth (TD):	35'
Static Water Level (WL):	NA
One Casing Volume(gal/L):	↓
Start Purge (hrs):	1050
End Purge (hrs):	1105
Total Purge Time (min):	15
Total Vol. Purged (gal/L):	5.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 31 ft to 35 ft.
- No odors or stains observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

Sample ID No.: SA-TW351-4145
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-7-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1153	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan	5.83	0.116	16.7	301	2.49	0.0	56

PURGE DATA: *(Gallons)*

Date: 9-7-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.90	0.127	17.7	648	2.60	0.0	13
Monitor Reading (ppm): 0.0	2	5.88	0.117	17.2	236	2.64	0.0	43
Well Casing Diameter & Material	3.5	5.87	0.116	17.0	288	2.63	0.0	51
Type: 1" Stainless	5	5.83	0.116	16.7	301	2.49	0.0	56
Total Well Depth (TD): 45'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1138								
End Purge (hrs): 1153								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 41 ft to 45 ft.
- No odors or stains observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G02045

Sample ID No.: SA-TW352-1620
Sample Location: Site ~~6A~~ Southern Area
Sampled By: Vince Shickora
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1009	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	4.70	0.076	14.3	101	2.67	0.0	145

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.24	0.181	16.6	1864	2.21	0.0	97
Monitor Reading (ppm): 0.0	2	5.16	0.087	15.2	249	2.65	0.0	121
Well Casing Diameter & Material	3.5	4.78	0.079	14.7	152	2.70	0.0	140
Type: 1" Stainless	5	4.70	0.076	14.3	101	2.67	0.0	145
Total Well Depth (TD): 20'								
Static Water Level (WL): NA ↓								
One Casing Volume(gal/L):								
Start Purge (hrs): 0954								
End Purge (hrs): 1009								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 16 ft to 20 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

Sample ID No.: SA-TW352-2630
Sample Location: Site ~~OA~~ Southern Area
Sampled By: Vince Shickora
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1040	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Ten Tint	5.69	0.082	14.7	151	1.80	0.0	23

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.99	0.120	15.5	2124	0.73	0.0	-66
Monitor Reading (ppm): 0.0	2	5.77	0.086	14.7	359	1.49	0.0	-13
Well Casing Diameter & Material	3.5	5.71	0.082	14.7	196	1.73	0.0	14
Type: 1" Stainless	5	5.69	0.082	14.7	151	1.80	0.0	23
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1025								
End Purge (hrs): 1040								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 26 ft to 30 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
-	SA-TWDUP02-20100908

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

Sample ID No.: SA-TW352-3640
Sample Location: Site ~~SA~~ Southern Area
Sampled By: Vince Shickora
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1105	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan	5.75	0.080	14.3	300	2.19	0.0	35

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.90	0.096	15.7	2037	1.87	0.0	-15
Monitor Reading (ppm): 0.0	2	5.83	0.082	14.8	405	2.09	0.0	12
Well Casing Diameter & Material	3.5	5.77	0.080	14.7	328	2.22	0.0	24
Type: 1" Stainless	5	5.75	0.080	14.3	300	2.19	0.0	35
Total Well Depth (TD): 40'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1050								
End Purge (hrs): 1105								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 36 ft to 40 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type: ____

Sample ID No.: SA-TW353-1620
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.: ____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1218	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.50	0.063	15.4	53.1	2.49	0.0	91

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.91	0.094	17.4	2125	2.53	0.0	32
Monitor Reading (ppm): 0.0	2	5.67	0.067	16.3	230	2.58	0.0	65
Well Casing Diameter & Material	3.5	5.56	0.064	15.7	91.2	2.52	0.0	82
Type: 1" Stainless	5	5.50	0.063	15.4	53.1	2.49	0.0	91
Total Well Depth (TD): 20'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1203								
End Purge (hrs): 1218								
Total Purge Time (min): 15								
Total Vol. Purged (gal): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 16 ft to 20 ft.
- No odors or stains observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW353-2630
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1240	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Slight Tan Tint	6.18	0.108	15.4	35.3	4.22	0.0	47

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.20	0.122	16.6	1345	3.32	0.0	-10
Monitor Reading (ppm): 0.0	2	6.22	0.113	15.9	178	3.91	0.0	8
Well Casing Diameter & Material	3.5	6.21	0.109	15.7	65.0	4.18	0.0	34
Type: 1" Stainless	5	6.18	0.108	15.4	35.3	4.22	0.0	47
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1225								
End Purge (hrs): 1240								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 26 ft to 30 ft.
- No odors or stains observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW35.3-3640
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1303	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.84	0.093	15.4	213	1.93	0.0	22

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.21	0.135	17.0	1945	1.91	0.0	-44
Monitor Reading (ppm): 0.0	2	6.06	0.100	15.7	1202	1.85	0.0	-10
Well Casing Diameter & Material	3.5	5.90	0.096	15.7	904	1.89	0.0	9
Type: 1" Stainless	5	5.84	0.093	15.4	213	1.93	0.0	22
Total Well Depth (TD): 40'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1248								
End Purge (hrs): 1303								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 36 ft to 40ft.
- No odors or stains observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW354-1620
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10 / Time: 1435 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan Tint	6.43	0.099	17.7	57.8	6.30	0.0	23

PURGE DATA: *(Gallons)*

Date: 9-8-10 / Method: Peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.40	0.098	18.2	392	7.27	0.0	18
Monitor Reading (ppm): 0.0	2							
Well Casing Diameter & Material	3.5							
Type: 1" Stainless	5							
Total Well Depth (TD): 20'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1418								
End Purge (hrs): 1430								
Total Purge Time (min): 12								
Total Vol. Purged (gal/L): 1.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

- No odors or stains observed.

Temporary well point screen zone 16 ft to 20 ft.

Note → well installed into very low yielding zone. well went dry after ~ 0.5 gallons purged. Stopped pump and allowed well to sit for ~ 5 minutes. Collected Grab sample

Circle if Applicable:

MS/MSD	Duplicate ID No.:
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Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

Sample ID No.: SA-TW354-2630
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1505	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan	5.37	0.057	15.0	229	1.94	0.0	74

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.00	0.078	16.6	2029	2.50	0.0	15
Monitor Reading (ppm): 0.0	2	5.70	0.060	15.8	388	2.22	0.0	41
Well Casing Diameter & Material	3.5	5.48	0.059	15.3	401	2.03	0.0	66
Type: 1" Stainless	5	5.37	0.057	15.0	229	1.94	0.0	74
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1450								
End Purge (hrs): 1505								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	YES
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 26 ft to 30 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW354-3640
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1525	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.48	0.097	14.5	196	1.88	0.0	43

PURGE DATA: *(Gallons)*

Date: 9-8-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.76	0.127	15.8	2234	1.44	0.0	-23
Monitor Reading (ppm): 0.0	2	5.63	0.103	15.1	796	1.69	0.0	14
Well Casing Diameter & Material	3.5	5.52	0.098	14.8	440	1.90	0.0	36
Type: 1" Stainless	5	5.48	0.097	14.5	196	1.88	0.0	43
Total Well Depth (TD): 40'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1510								
End Purge (hrs): 1525								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 36 ft to 40 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
Yes	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW355-1620
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-10-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1058	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump		6.14	0.113	14.7		3.74	0.0	71

PURGE DATA: *(Gallons)*

Date: 9-10-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.16	0.130	16.0	2216	3.31	0.0	54
Monitor Reading (ppm): 0.0	2	6.17	0.115	15.2	642	3.87	0.0	60
Well Casing Diameter & Material	3.5	6.15	0.113	14.8		3.72	0.0	66
Type: 1" Stainless	5	6.14	0.113	14.7		3.74	0.0	71
Total Well Depth (TD): 20'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1043								
End Purge (hrs): 1058								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	NO
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 16 ft to 20 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW355-2630
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-10-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1115	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Ten Tint	6.12	0.100	13.8	78.7	3.43	0.0	55

PURGE DATA: *(Gallons)*

Date: 9-10-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.25	0.118	15.5	1944	3.01	0.0	10
Monitor Reading (ppm): 0.0	2	6.19	0.103	14.4	707	3.42	0.0	34
Well Casing Diameter & Material	3.5	6.14	0.102	13.9	342	3.46	0.0	46
Type: 1" Stainless	5	6.12	0.100	13.8	78.7	3.43	0.0	55
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1106								
End Purge (hrs): 1115								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 26 ft to 30 ft.
- No odors or stains observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW355-3640
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date: 9-10-10								
Time: 1138	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.70	0.093	13.9	67.9	2.20	0.0	53

PURGE DATA: *(Gallons)*

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date: 9-10-10								
Method: Peristaltic pump	0.5	5.94	0.112	15.0	2488	2.09	0.0	18
Monitor Reading (ppm): 0.0	2	5.77	0.096	14.4	598	2.21	0.0	34
Well Casing Diameter & Material	3.5	5.69	0.094	14.1	217	2.08	0.0	49
Type: 1" Stainless	5	5.70	0.093	13.9	67.9	2.20	0.0	53
Total Well Depth (TD): 40'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1123								
End Purge (hrs): 1138								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 36 ft to 40 ft.
- No odors or stains observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type: ___

Sample ID No.: SA-TW356-1620
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.: ___
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10 / Time: 1630 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan Tint	5.88	0.099	15.0	118	4.15	0.0	127

PURGE DATA: *(Gallons)*

Date: 9-8-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.06	0.112	17.3	1864	3.97	0.0	95
	2	6.01	0.101	15.8	228	4.09	0.0	108
	3.5	5.94	0.099	15.3	169	4.17	0.0	121
	5	5.88	0.099	15.0	118	4.15	0.0	127

Total Well Depth (TD): 20'
Static Water Level (WL): NA
One Casing Volume(gal/L): ↓
Start Purge (hrs): 1615
End Purge (hrs): 1630
Total Purge Time (min): 15
Total Vol. Purged (gal/L): 5.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 16 ft to 20 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW356-2630
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10 / Time: 1710 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Brown	6.22	0.131	16.7	1403	2.94	0.0	-30

PURGE DATA: *(Gallons)*

Date: 9-8-10 / Method: Peristaltic pump	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	6.29	0.140	18.4	2024	4.67	0.0	-12
Monitor Reading (ppm): 0.0	2							
Well Casing Diameter & Material	3.5							
Type: 1" Stainless	5							
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 1637								
End Purge (hrs): 1710								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~0.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

- No odors or stains observed

Temporary well point screen zone 26 ft to 30 ft.

Note → well went dry after ~ 0.75 gallons purged. Allowed well to sit for ~ 10 minutes to recharge and collected sample

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW356-3640
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-8-10 / Time: 1733 / Method: Peristaltic pump	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
	Tan	5.56	0.085	14.3	251	2.31	0.0	61

PURGE DATA: *(Gallons)*

Date: 9-8-10 / Method: Peristaltic pump / Monitor Reading (ppm): 0.0 / Well Casing Diameter & Material / Type: 1" Stainless	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
	0.5	5.82	0.103	16.2	2173	1.97	0.0	13
	2	5.74	0.090	14.7	444	2.30	0.0	32
	3.5	5.64	0.086	14.3	347	2.41	0.0	49
	5	5.56	0.085	14.3	251	2.31	0.0	61

Total Well Depth (TD):	40'
Static Water Level (WL):	NA
One Casing Volume(gal/L):	↓
Start Purge (hrs):	1718
End Purge (hrs):	1733
Total Purge Time (min):	15
Total Vol. Purged (gal/L):	5.0

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 36 ft to 40 ft.
- No odors or stains observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW357-1620
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-10-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 0915	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	clear	6.22	0.108	15.0	8.4	4.71	0.0	48

PURGE DATA: *(Gallons)*

Date: 9-10-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.47	0.153	16.1	2197	2.96	0.0	-20
Monitor Reading (ppm): 0.0	2	6.38	0.116	15.5	972	3.40	0.0	12
Well Casing Diameter & Material	3.5	6.29	0.109	15.2	90.6	4.12	0.0	36
Type: 1" Stainless	5	6.22	0.108	15.0	8.4	4.71	0.0	48
Total Well Depth (TD): 20'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0900								
End Purge (hrs): 0915								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 16 ft to 20 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW357-2630
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-10-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 0943	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump	Tan Tint	5.65	0.065	13.9	60.2	1.74	0.0	49

PURGE DATA: *(Gallons)*

Date: 9-10-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	6.39	0.136	16.8	2330	0.99	0.0	-72
Monitor Reading (ppm): 0.0	2	5.98	0.069	15.2	1113	1.72	0.0	-14
Well Casing Diameter & Material	3.5	5.72	0.065	14.4	364	1.81	0.0	34
Type: 1" Stainless	5	5.65	0.065	13.9	60.2	1.74	0.0	49
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0928								
End Purge (hrs): 0943								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	↓

OBSERVATIONS / NOTES:

Temporary well point screen zone 26 ft to 30 ft.
- No odors or stains observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: SA-TW357-3640
Sample Location: Site 6A
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-10-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: 1003	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic pump		5.60	0.070	13.4	71.4	1.80	0.0	53

PURGE DATA: *(Gallons)*

Date: 9-10-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Peristaltic pump	0.5	5.91	0.091	14.4	2170	1.94	0.0	-5
Monitor Reading (ppm): 0.0	2	5.67	0.072	13.7	511	1.92	0.0	34
Well Casing Diameter & Material	3.5	5.62	0.070	13.4	202	1.88	0.0	45
Type: 1" Stainless	5	5.60	0.070	13.4	71.4	1.80	0.0	53
Total Well Depth (TD): 40'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): ↓								
Start Purge (hrs): 0948								
End Purge (hrs): 1063								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 X 40ML vials	Yes
Samples split with Suffolk County Health Dept.			
VOCs	HCL	2 X 40 ML vials	No
Total Metals	HNO3	1 X 250 ML poly bottle	↓
Inorganics (Noitrate/Nitrite, etc)	None	1 X 250 ML poly bottle	

OBSERVATIONS / NOTES:

Temporary well point screen zone 36 ft to 40 ft.
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

APPENDIX C

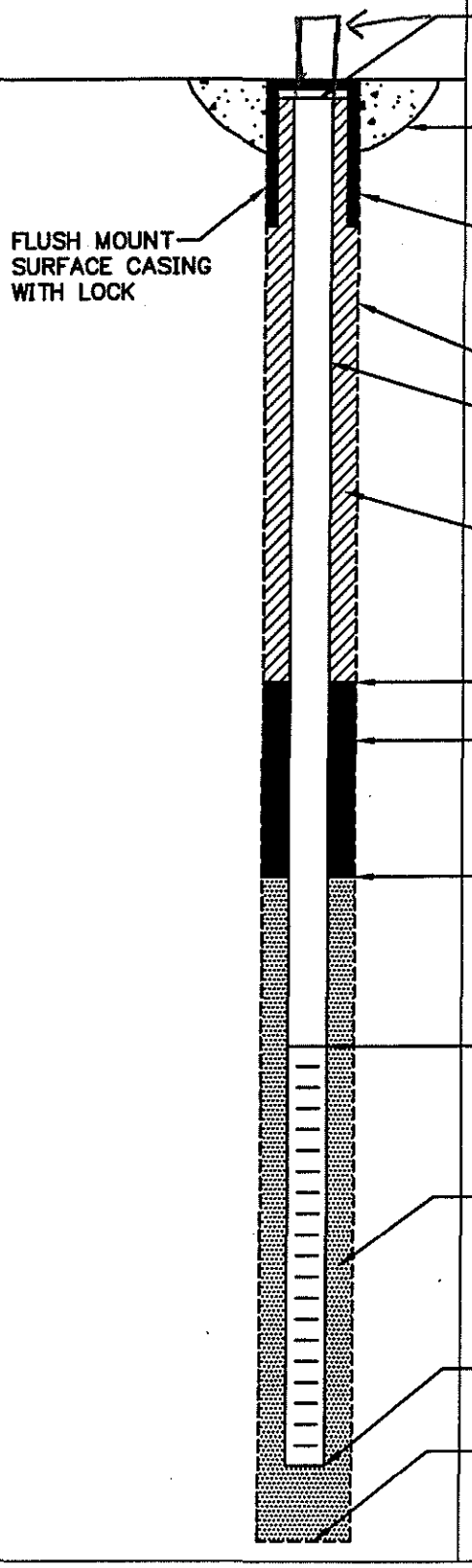
MONITORING WELL CONSTRUCTION AND DEVELOPMENT RECORDS

WELL NO.: PZ-133I1

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
~~FLUSH~~ MOUNT
VAS Stickup

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Ever Mosaitis
PROJECT NO. 112601655	BORING PZ-133	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-23-10	DATE COMPLETED 3-23-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: ~ +2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.25"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1" PVC

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 130'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

ELEVATION/DEPTH TOP OF SAND: 133'

ELEVATION/DEPTH TOP OF SCREEN: 135'

TYPE OF SCREEN: 1" PVC prepack

SLOT SIZE x LENGTH: 0.01" X 5'

TYPE OF SAND PACK: #1 Silica Quartz (in prepack)
#2 Silica Quartz added around well screen

DIAMETER OF HOLE IN BEDROCK: 3.25"

ELEVATION / DEPTH BOTTOM OF SCREEN: 140'

ELEVATION / DEPTH BOTTOM OF SAND: 140'

ELEVATION/DEPTH BOTTOM OF HOLE: 140'

BACKFILL MATERIAL BELOW SAND: Natural formation

ACAD:FORM_MWFM.dwg 07/20/99 INL

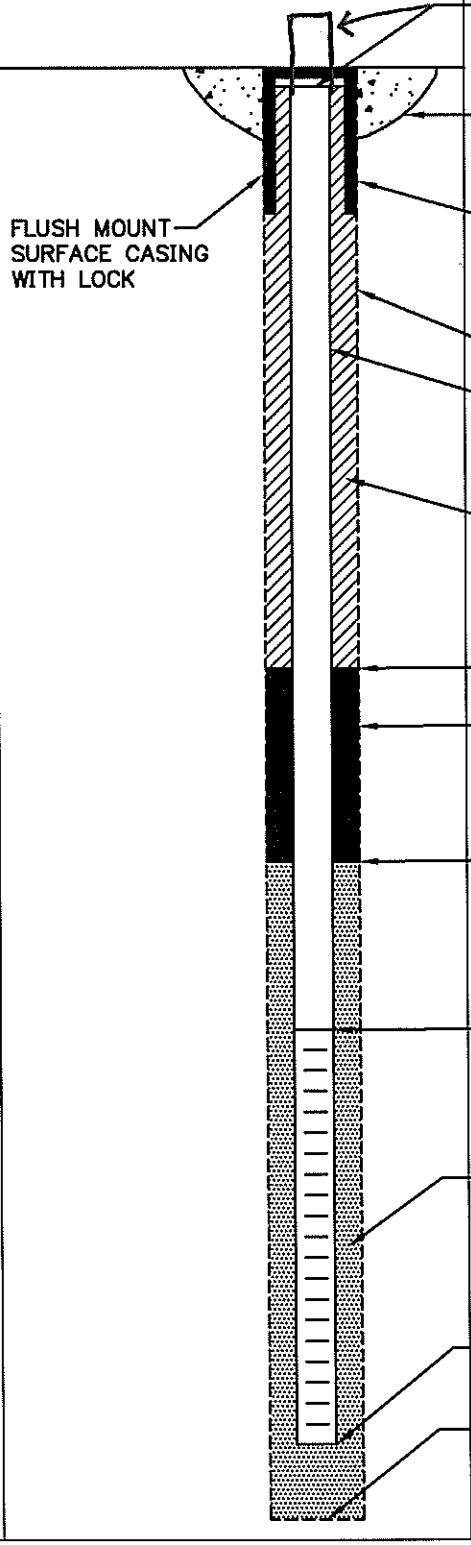
WELL NO.: PZ-133I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET

(VAS) ~~FLUSH~~ MOUNT Stickup

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING PZ-133	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-23-10	DATE COMPLETED 3-23-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: ~ +2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.25"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1 inch

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 136'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

ELEVATION/DEPTH TOP OF SAND: 139'

ELEVATION/DEPTH TOP OF SCREEN: 142'

TYPE OF SCREEN: 1" PVC prepack

SLOT SIZE x LENGTH: 0.01" X 5'

TYPE OF SAND PACK: #1 Silica Quartz (in prepack) #2 Silica Quartz added around well screen

DIAMETER OF HOLE IN BEDROCK: 3.25"

ELEVATION / DEPTH BOTTOM OF SCREEN: 147'

ELEVATION / DEPTH BOTTOM OF SAND: 147'

ELEVATION/DEPTH BOTTOM OF HOLE: 147'

BACKFILL MATERIAL BELOW SAND: Natural Formation

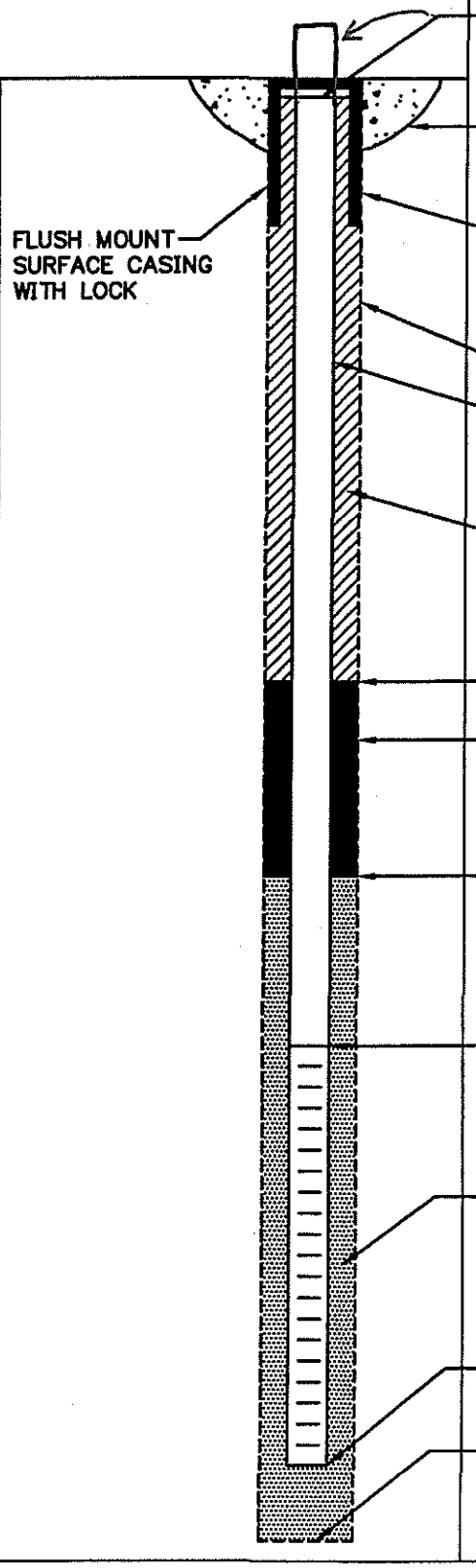
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: PZ-134

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
~~FLUSH~~ (AS Stickup) - MOUNT

PROJECT NoIAP Colverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING PZ-134	DRILLING METHOD Geoprobe, APT
DATE BEGUN 3-24-10	DATE COMPLETED 3-24-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: ~ +2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.25"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1" PVC

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 134'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

ELEVATION/DEPTH TOP OF SAND: 137'

ELEVATION/DEPTH TOP OF SCREEN: 139'

TYPE OF SCREEN: 1" PVC prepack

SLOT SIZE x LENGTH: 0.01" X 5'

TYPE OF SAND PACK: #1 Silica Quartz (in prepack)
#2 Silica Quartz added around well screen

DIAMETER OF HOLE IN BEDROCK: 3.25"

ELEVATION / DEPTH BOTTOM OF SCREEN: 144'

ELEVATION / DEPTH BOTTOM OF SAND: 144'

ELEVATION/DEPTH BOTTOM OF HOLE: 144'

BACKFILL MATERIAL BELOW SAND: Natural formation

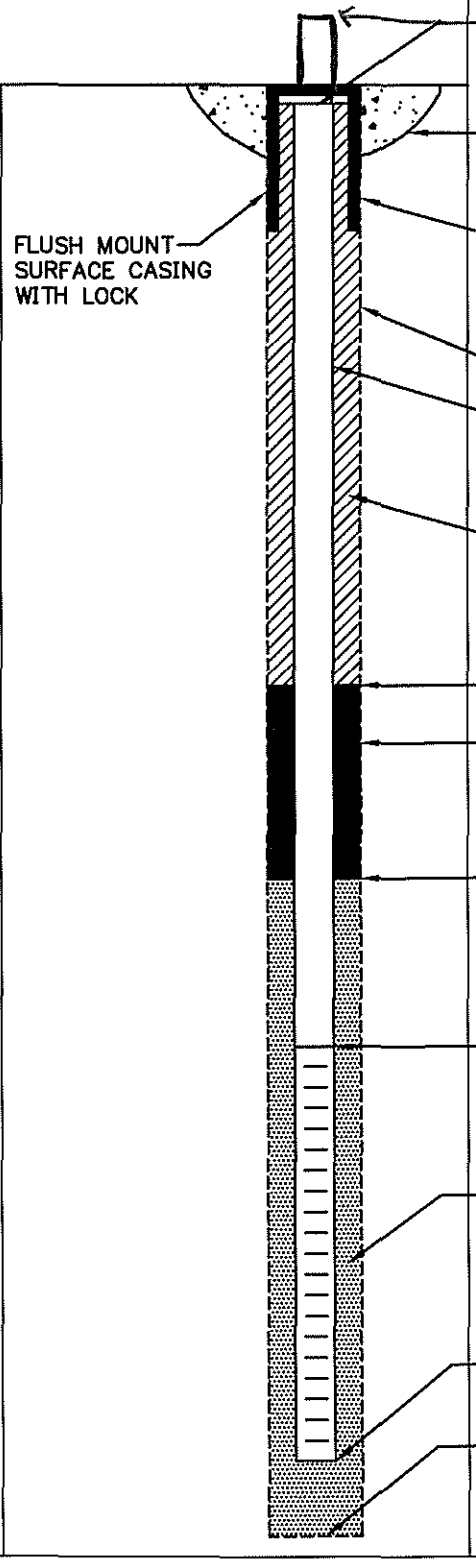
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: PZ-135

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
(NAS) FLUSH - MOUNT
Stickup

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING PZ-135	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-23-10	DATE COMPLETED 3-23-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: + 2.5

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.25"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1 inch

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 136'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

ELEVATION/DEPTH TOP OF SAND: 139'

ELEVATION/DEPTH TOP OF SCREEN: 141.5'

TYPE OF SCREEN: 1" PVC Prepack

SLOT SIZE x LENGTH: 0.01" X 5'

TYPE OF SAND PACK: #1 Silica quartz (in prepack) #2 Silica quartz added around well screen

DIAMETER OF HOLE IN BEDROCK: 3.25"

ELEVATION / DEPTH BOTTOM OF SCREEN: 146.5'

ELEVATION / DEPTH BOTTOM OF SAND: 146.5'

ELEVATION/DEPTH BOTTOM OF HOLE: 146.5'

BACKFILL MATERIAL BELOW SAND: Natural formation

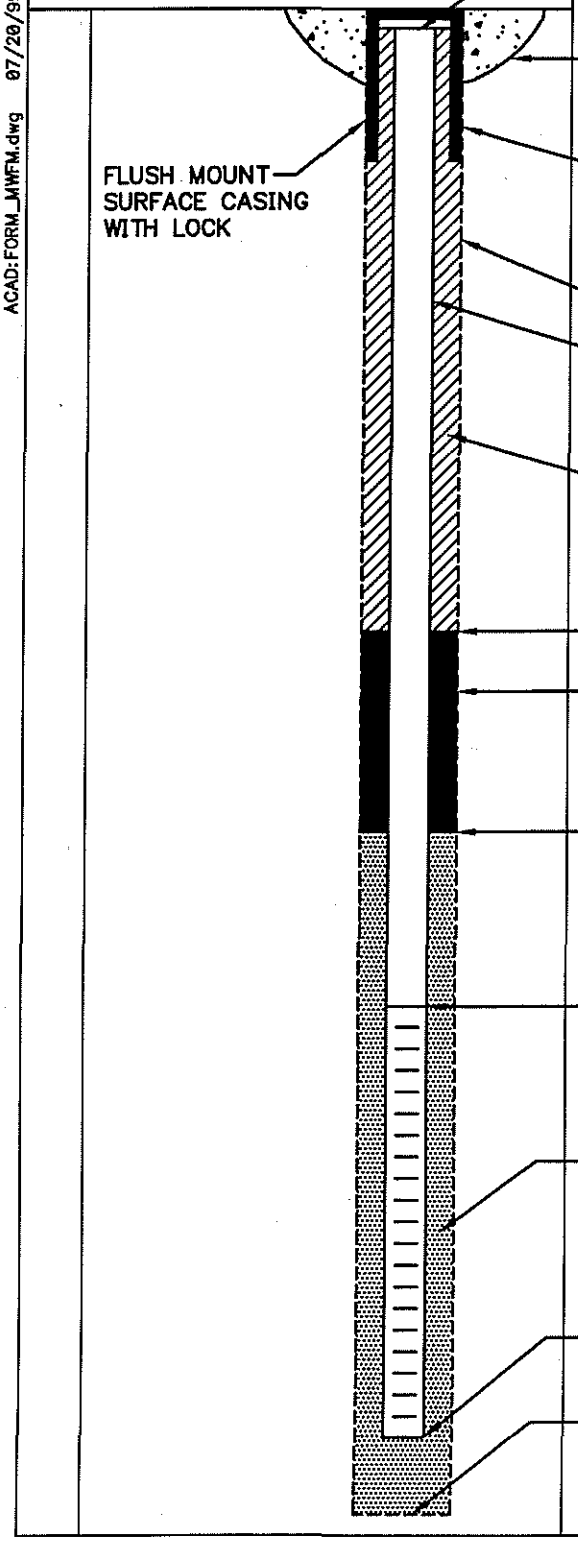
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: PZ-136

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
~~FLUSH~~ (VAS) - MOUNT
Stickup

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Even Matsatsis
PROJECT NO. 112G01655	BORING PZ-136	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-22-10	DATE COMPLETED 3-22-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: ~2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.5"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1" PVC

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 139'

TYPE OF SEAL: 3/8" Bentonite Holeplug pellets

ELEVATION/DEPTH TOP OF SAND: 142'

ELEVATION/DEPTH TOP OF SCREEN: 144'

TYPE OF SCREEN: 1" PVC prepack well

SLOT SIZE x LENGTH: 0.01" X 5'

TYPE OF SAND PACK: #1 Silica Quartz (in prepacks) #2 Silica quartz added around well screen

DIAMETER OF HOLE IN BEDROCK:

ELEVATION / DEPTH BOTTOM OF SCREEN: 149'

ELEVATION / DEPTH BOTTOM OF SAND: 149'

ELEVATION/DEPTH BOTTOM OF HOLE: 149'

BACKFILL MATERIAL BELOW SAND: NA

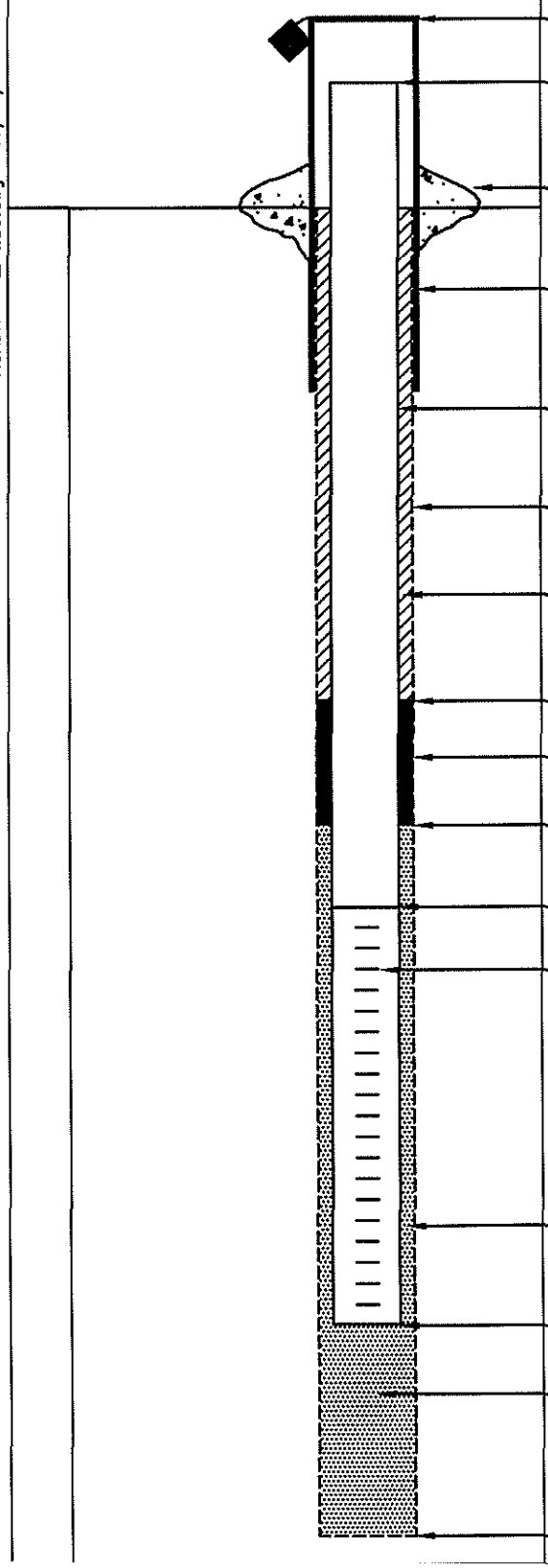
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: PZ-137

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Even Morartis
PROJECT NO. 112G01655	BORING PZ-137	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-23-10	DATE COMPLETED 3-22-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: (WKS) 1'-2.5'

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1'-2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

I.D. OF SURFACE CASING: NA

TYPE OF SURFACE CASING: NA

RISER PIPE I.D.: 1" PVC

TYPE OF RISER PIPE: 1" PVC

BOREHOLE DIAMETER: 3.5"

TYPE OF BACKFILL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 143'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

DEPTH TOP OF SAND PACK: 146'

ELEVATION/DEPTH TOP OF SCREEN: 149'

TYPE OF SCREEN: 1" PVC prepack well

SLOT SIZE x LENGTH: 0.01" X 5'

I.D. OF SCREEN: 1" PVC prepack well

TYPE OF SAND PACK: #1 Silica Quartz (in prepack) #2 Silica Quartz added around well screen

ELEVATION/DEPTH BOTTOM OF SCREEN: 154'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 154'

BACKFILL MATERIAL BELOW SAND: Natural Formation

ELEVATION/DEPTH OF HOLE: 154'

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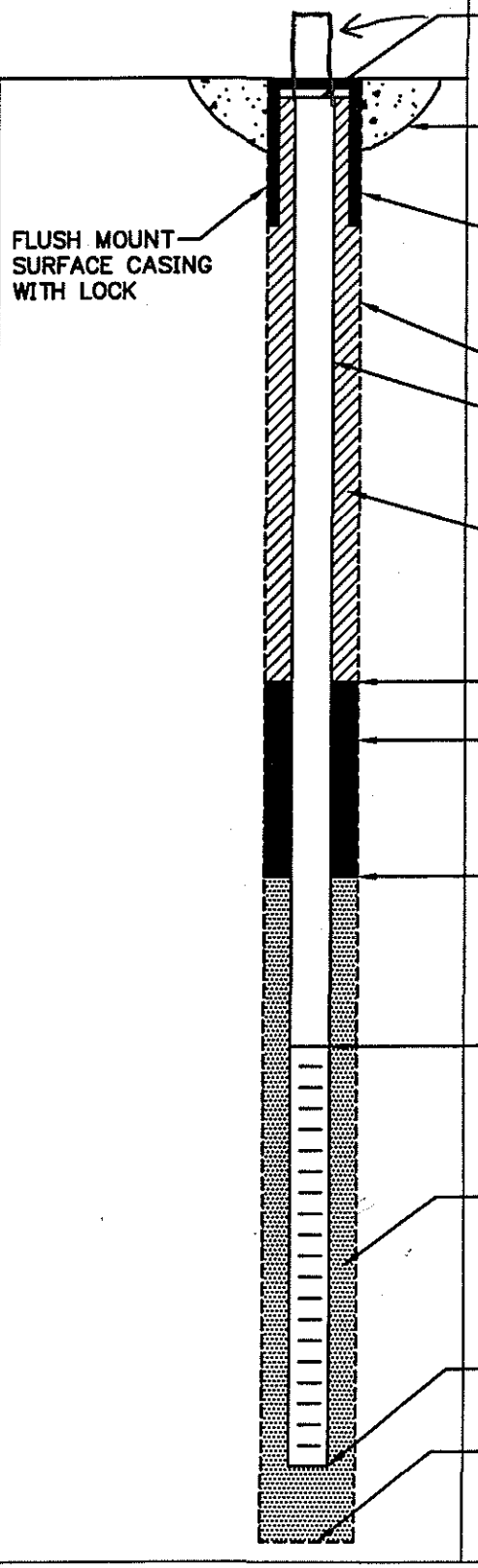
WELL NO.: PZ-138

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
(VAS) ~~FLUSH~~ - MOUNT
Stickup

PROJECT NwIRP Calverton	LOCATION Southern Area	DRILLER Eva Moraitis
PROJECT NO. 112601655	BORING PZ-138	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-25-10	DATE COMPLETED 3-25-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: ~+2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.25"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1" PVC

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 143'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

ELEVATION/DEPTH TOP OF SAND: 146'

ELEVATION/DEPTH TOP OF SCREEN: 148.5'

TYPE OF SCREEN: 1" PVC prepack

SLOT SIZE x LENGTH: 0.01" X 5'

TYPE OF SAND PACK: #1 Silica Quartz (in prepack)
#2 Silica Quartz added around well screen

DIAMETER OF HOLE IN BEDROCK: 3.25"

ELEVATION / DEPTH BOTTOM OF SCREEN: 153.5'

ELEVATION / DEPTH BOTTOM OF SAND: 153.5'

ELEVATION/DEPTH BOTTOM OF HOLE: 153.5'

BACKFILL MATERIAL BELOW SAND: Natural formation

ACAD: FORM_MWFM.dwg 07/20/99 INL

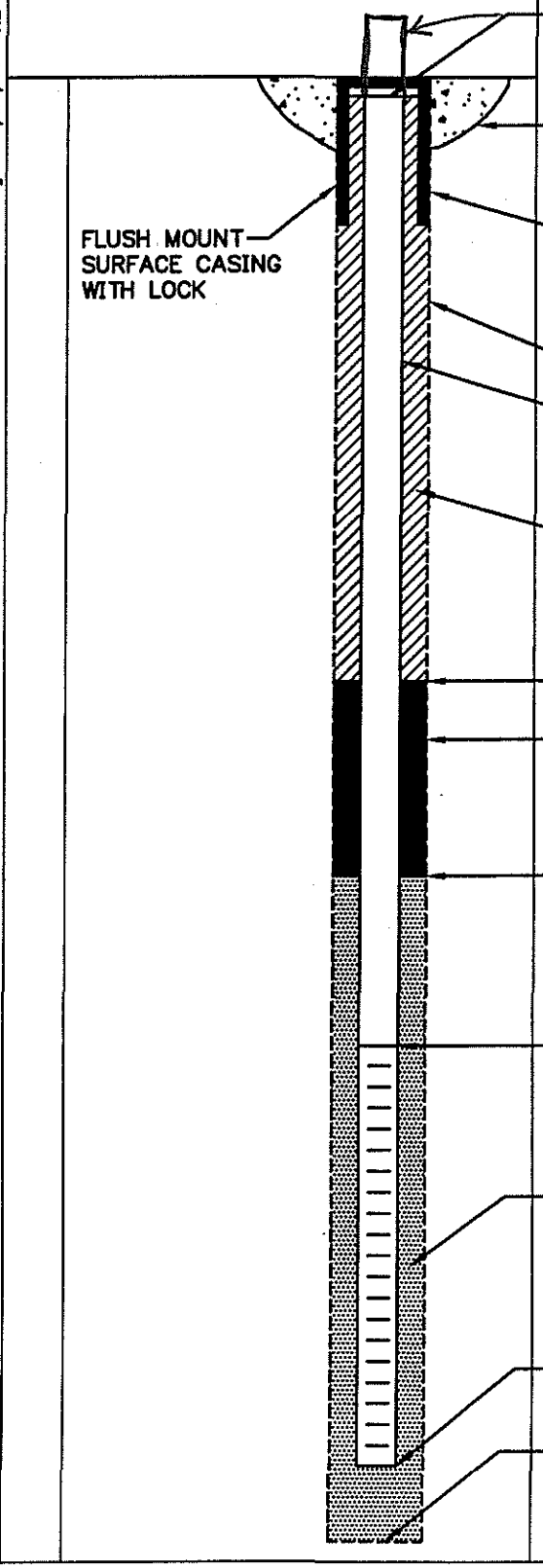
WELL NO.: PZ-139

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
(VAS ~~FLUSH~~ - MOUNT
Stickup

PROJECT NwIRP Calverton	LOCATION Southern Area	DRILLER Even Morsiths
PROJECT NO. 112601655	BORING PZ-139	DRILLING METHOD Geoprobe DPT
DATE BEGUN 3-25-10	DATE COMPLETED 3-25-10	
FIELD GEOLOGIST Vince Shickora		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	

ACAD:FORM_MWFM.dwg 07/20/99 INL



ELEVATION TOP OF RISER: ~+2.5'

TYPE OF SURFACE SEAL: NA (Grout to surface)

TYPE OF PROTECTIVE CASING: NA

I.D. OF PROTECTIVE CASING: NA

DIAMETER OF HOLE: 3.25"

TYPE OF RISER PIPE: 1" PVC

RISER PIPE I.D.: 1" PVC

TYPE OF BACKFILL/SEAL: Cement/Bentonite Grout

ELEVATION/DEPTH TOP OF SEAL: 137'

TYPE OF SEAL: 3/8" Bentonite Holeplug Pellets

ELEVATION/DEPTH TOP OF SAND: 140'

ELEVATION/DEPTH TOP OF SCREEN: 142.5'

TYPE OF SCREEN: 1" PVC prepack

SLOT SIZE x LENGTH: 0.01" x 5'

TYPE OF SAND PACK: #1 Silica Quartz (in prepack) #2 Silica Quartz added around well screen

DIAMETER OF HOLE IN BEDROCK: 3.25"

ELEVATION / DEPTH BOTTOM OF SCREEN: 147.5'

ELEVATION / DEPTH BOTTOM OF SAND: 147.5'

ELEVATION/DEPTH BOTTOM OF HOLE: 147.5'

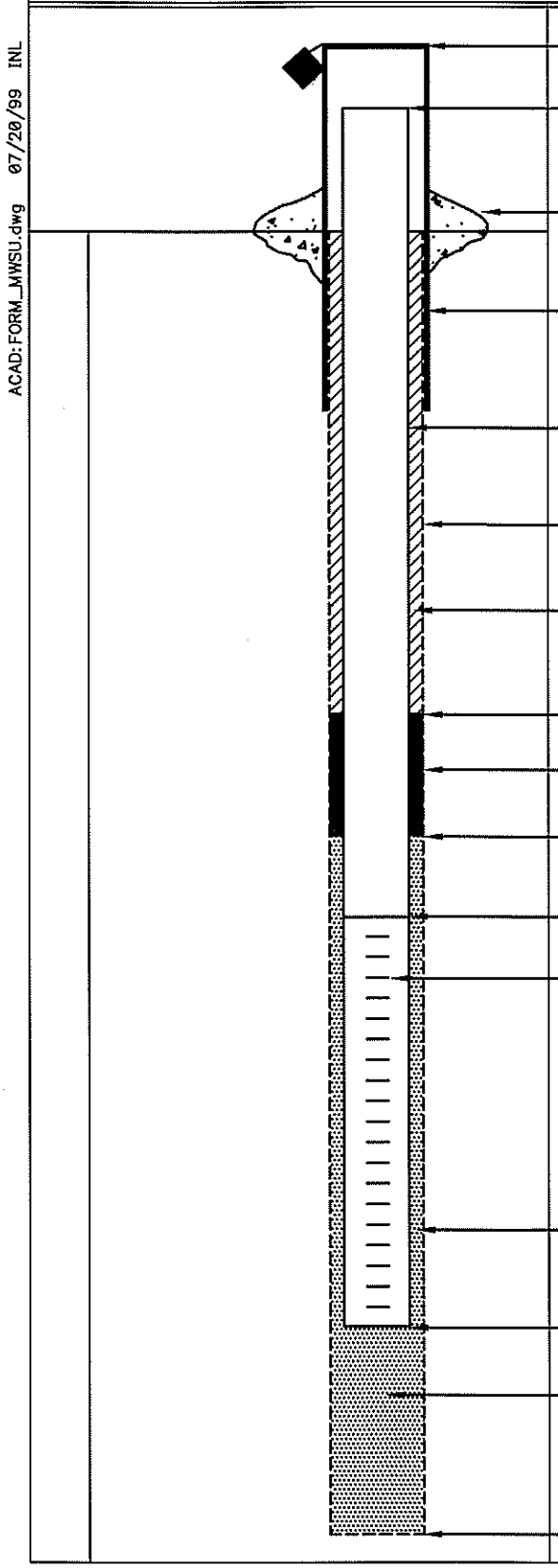
BACKFILL MATERIAL BELOW SAND: Natural Formation

WELL NO.: SA-PZ-140

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING SA-PZ-140	DRILLING METHOD DPT
DATE BEGUN 6-21-10	DATE COMPLETED 6-21-10	
FIELD GEOLOGIST S. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: +3

ELEVATION/HEIGHT OF TOP OF RISER PIPE: +3

TYPE OF SURFACE SEAL: Concete pad

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Stainless Steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC (schedule 40)

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: +33.5

TYPE OF SEAL: Bentonite Chips (hydrated

DEPTH TOP OF SAND PACK: 37'

ELEVATION/DEPTH TOP OF SCREEN: +45.5'

TYPE OF SCREEN: Prepacked Screen

SLOT SIZE x LENGTH: 0.010" x 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: +49.5'

ELEVATION/DEPTH BOTTOM OF SAND PACK: +

BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 50'+

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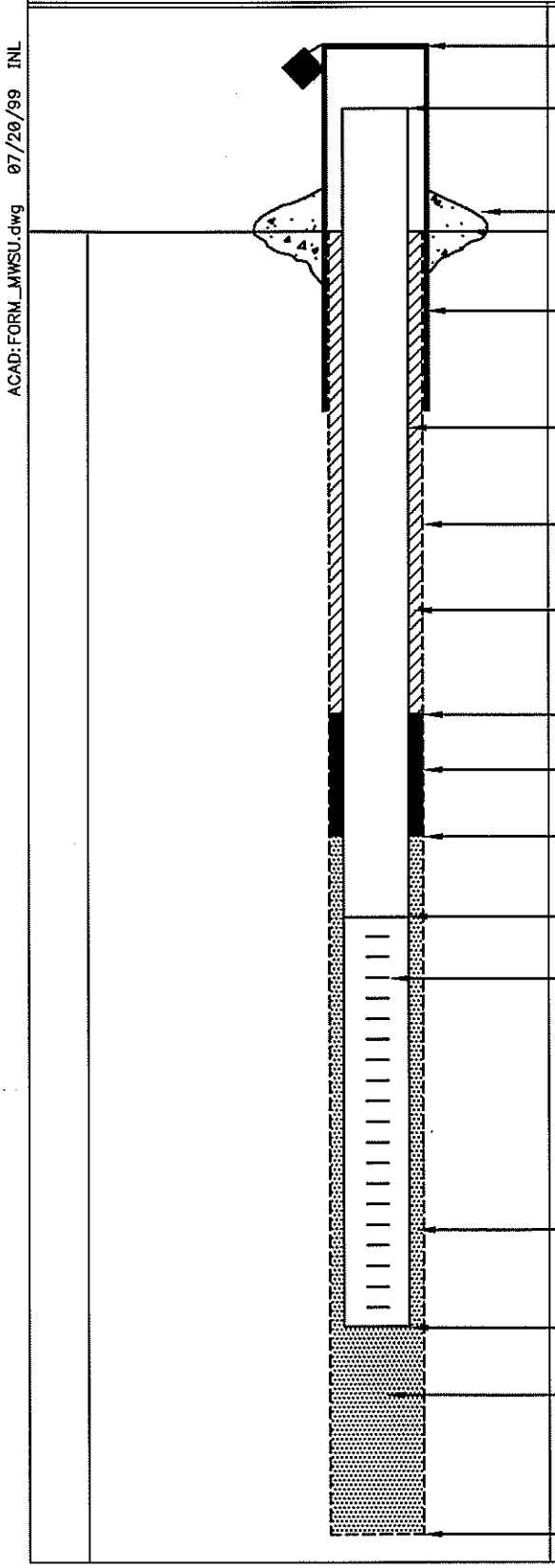
WELL NO.: SA-PZ-141

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT Calverton	LOCATION Sout	DRILLER Evan Moraitis (Zebra)
PROJECT NO. 112G01655	BORING SA-SB-325	DRILLING METHOD DPT
DATE BEGUN 6-15-10	DATE COMPLETED 6-15-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 3' /

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 3' /

TYPE OF SURFACE SEAL: Bentonite grout

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING: Stainless Steel protective casing

RISER PIPE I.D.: 1"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 45 /

TYPE OF SEAL: Bentonite chips (hydrated)

DEPTH TOP OF SAND PACK: 48.5

ELEVATION/DEPTH TOP OF SCREEN: 50.5 /

TYPE OF SCREEN: Prepacked screen (2.4" w/prepack)

SLOT SIZE x LENGTH: 0.010" x 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK: #1 DSI

ELEVATION/DEPTH BOTTOM OF SCREEN: 55.5/

ELEVATION/DEPTH BOTTOM OF SAND PACK: /

BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 55.5 /

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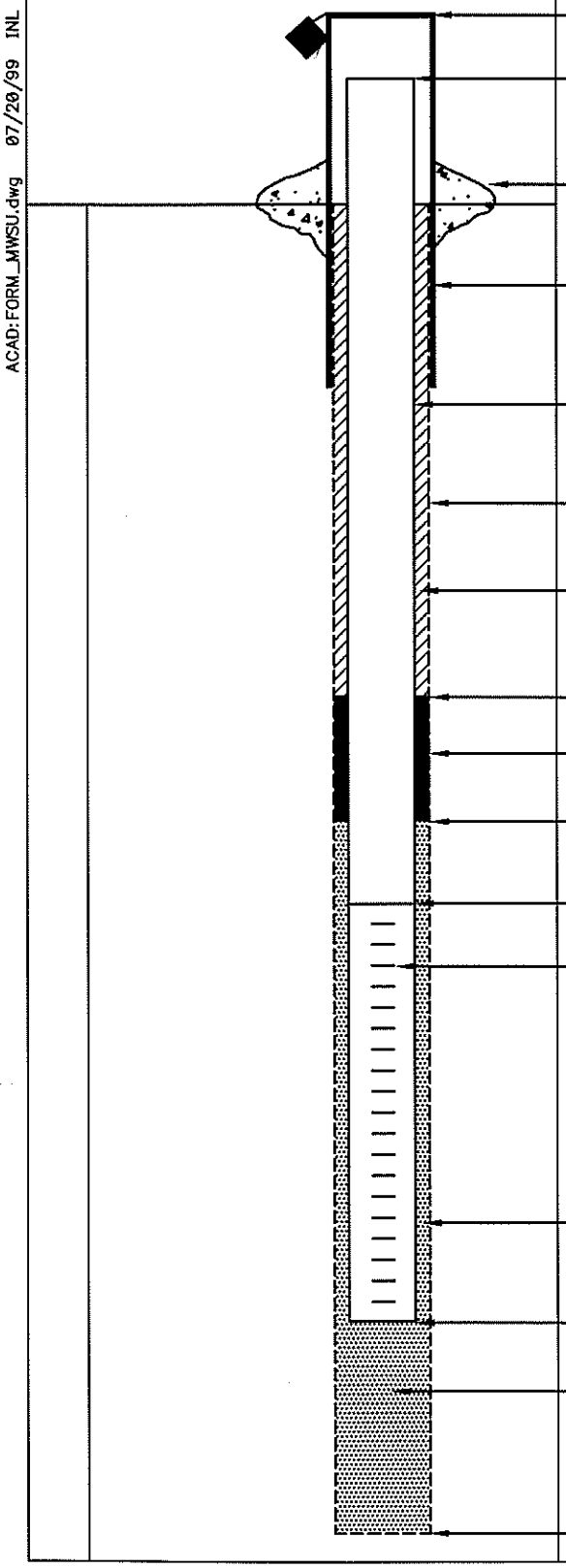
WELL NO.: SA-PZ-142

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

PROJECT Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING SA-SB-326	DRILLING METHOD DPT
DATE BEGUN 6-16-10	DATE COMPLETED 6-16-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: /

ELEVATION/HEIGHT OF TOP OF RISER PIPE: /

TYPE OF SURFACE SEAL: Bentonite grout

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Stainless steel painted

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 34' /

TYPE OF SEAL: Bentonite pellets (hydrated

DEPTH TOP OF SAND PACK: 37

ELEVATION/DEPTH TOP OF SCREEN: 40.5 /

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x @ 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: 45.5 /

ELEVATION/DEPTH BOTTOM OF SAND PACK: /
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 50 /

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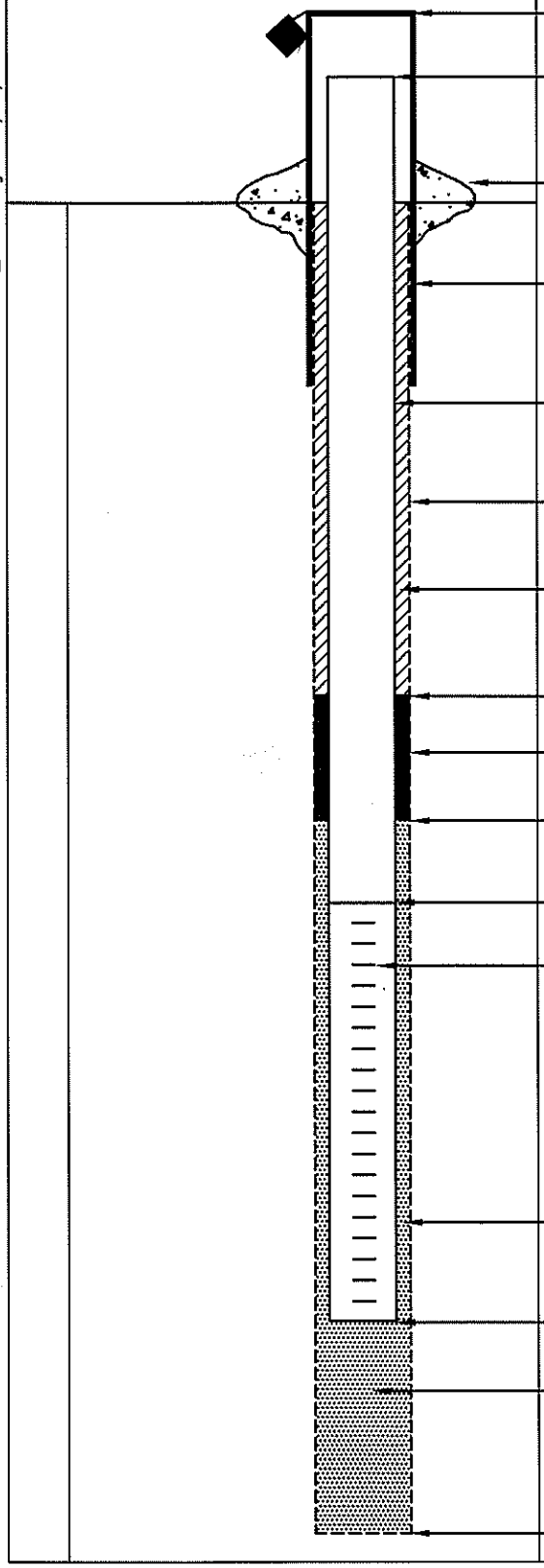
WELL NO.: SA-PZ-143

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. N2G01655	BORING SA-PZ-143	DRILLING METHOD DPT
DATE BEGUN 6-16-10	DATE COMPLETED 6-16-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: /

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 3' /

TYPE OF SURFACE SEAL: Bentonite grout

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Stainless steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 36 /

TYPE OF SEAL: Bentonite chips (hydrated)

DEPTH TOP OF SAND PACK: 39.5

ELEVATION/DEPTH TOP OF SCREEN: 41 /

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: 46 /

ELEVATION/DEPTH BOTTOM OF SAND PACK: /
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 50 /

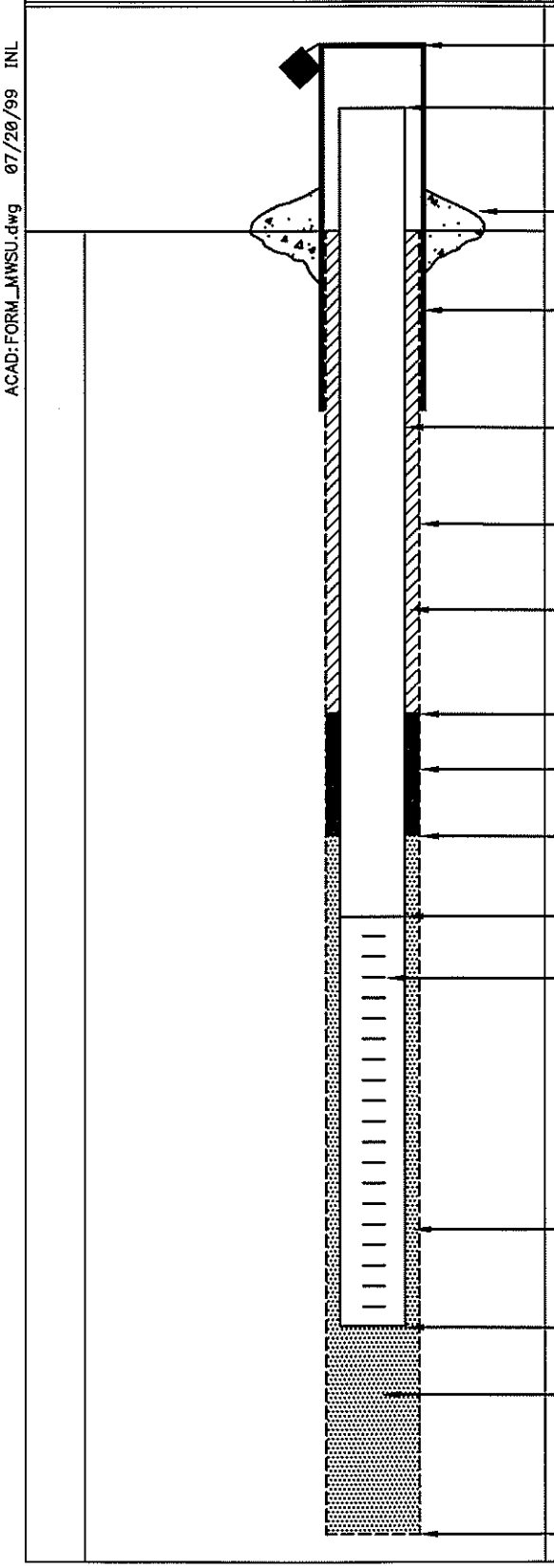
ACAD:FORM_MWSU.dwg 07/20/99 INL

WELL NO.: SA-PZ-144 S

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT UWRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING SA-SB-144	DRILLING METHOD DPT
DATE BEGUN 6-23-10	DATE COMPLETED 6-23-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 13

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 13

TYPE OF SURFACE SEAL: Concrete pad

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC (schedule 40)

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 12.5

TYPE OF SEAL: Bentonite chips (hydrated

DEPTH TOP OF SAND PACK: 4

ELEVATION/DEPTH TOP OF SCREEN: 15

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x 10'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: 15

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 15

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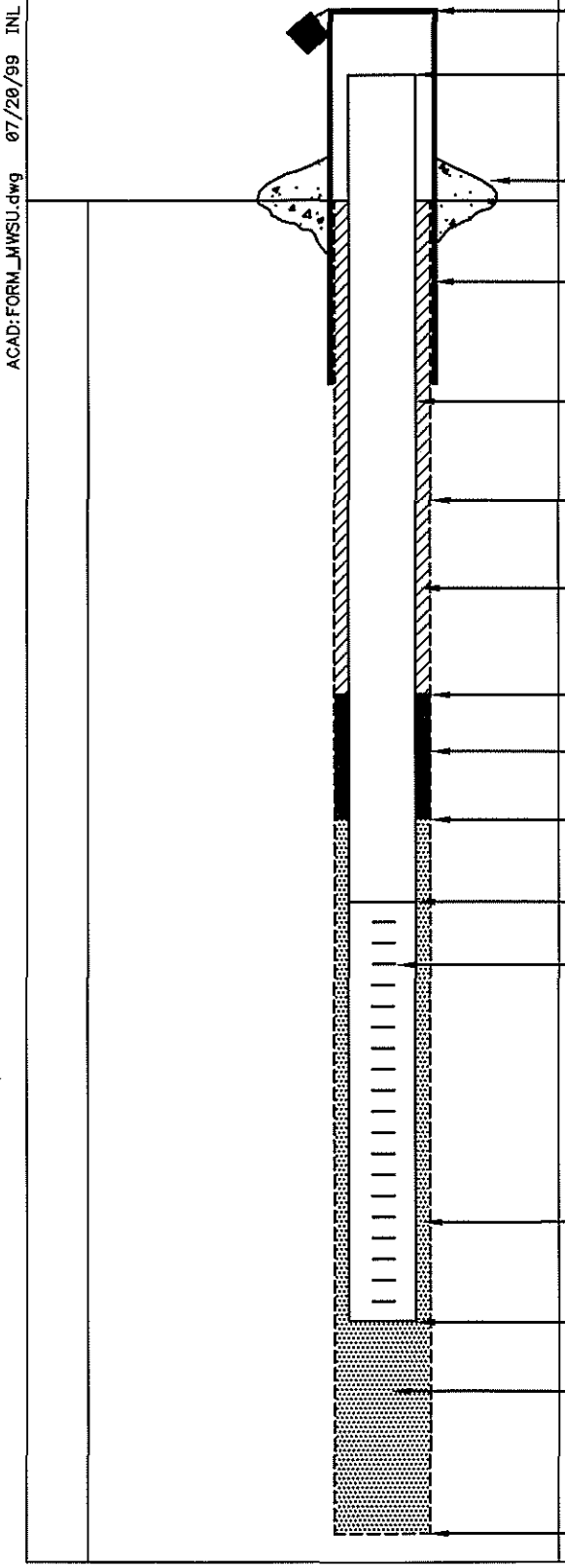
WELL NO.: SA-PZ-144I

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING SA-SB-144	DRILLING METHOD DPT
DATE BEGUN 6-23-10	DATE COMPLETED 6-23-10	
FIELD GEOLOGIST J. Bickett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: +3

ELEVATION/HEIGHT OF TOP OF RISER PIPE: +3

TYPE OF SURFACE SEAL: Concrete pad

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC (Schedule 40)

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: 38'

TYPE OF SEAL: Bentonite chips (hydrated)

DEPTH TOP OF SAND PACK: 41'

ELEVATION/DEPTH TOP OF SCREEN: 145'

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: 150'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1'
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: 155'

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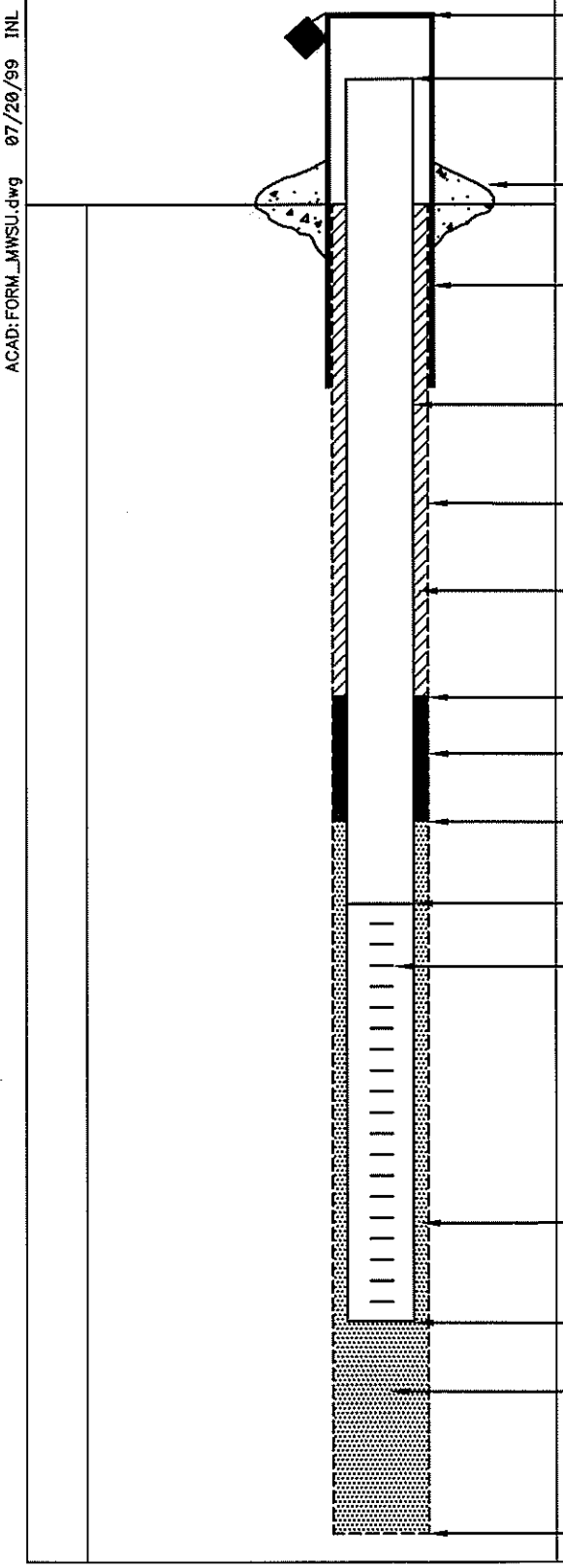
WELL NO.: SA-PZ-145 S'

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Morris
PROJECT NO. 112G01655	BORING SA-SB-195	DRILLING METHOD DPT
DATE BEGUN 6-23-10	DATE COMPLETED 6-23-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: +3

ELEVATION/HEIGHT OF TOP OF RISER PIPE: +3

TYPE OF SURFACE SEAL: Concrete pad

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC (schedule 40)

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: +3

TYPE OF SEAL: Bentonite chips (hydrated)

DEPTH TOP OF SAND PACK: 4.5

ELEVATION/DEPTH TOP OF SCREEN: +5'

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x 10'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: +15'

ELEVATION/DEPTH BOTTOM OF SAND PACK: +

BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: +15

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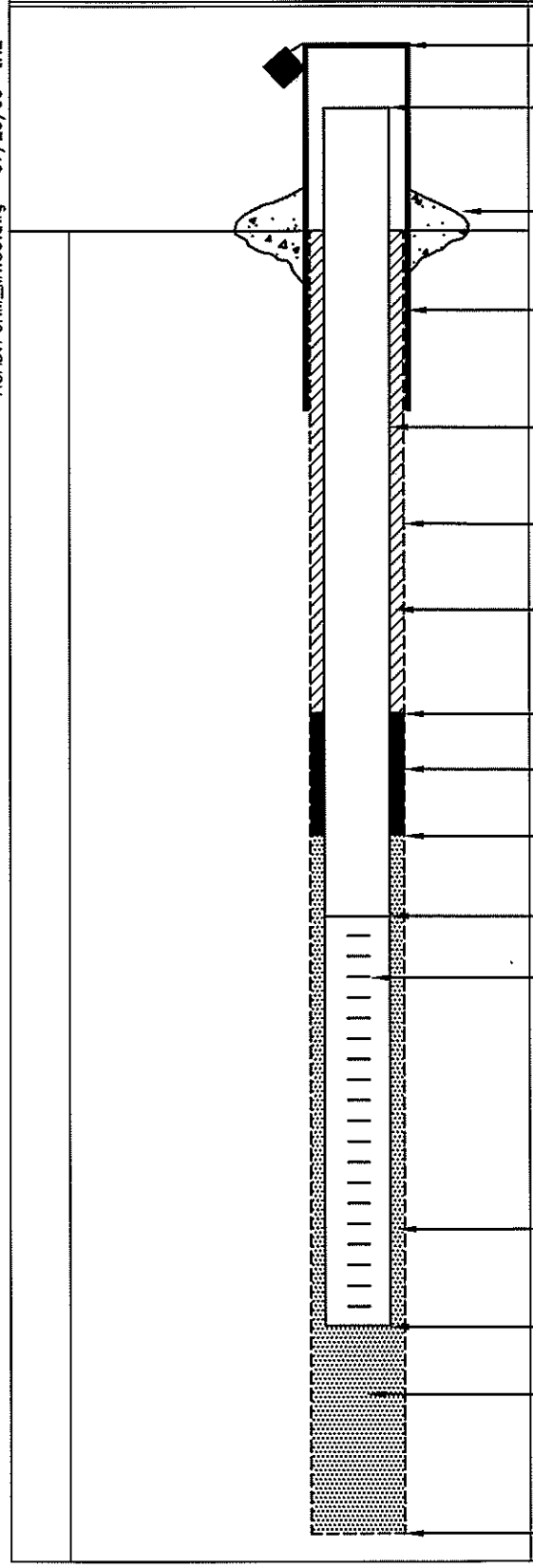
WELL NO.: SA-PZ-145 I

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING SA-SB-145	DRILLING METHOD DPT
DATE BEGUN 6-23-10	DATE COMPLETED 6-23-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: / 3

ELEVATION/HEIGHT OF TOP OF RISER PIPE: / 3

TYPE OF SURFACE SEAL: Concret pad

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC (schedule 40)

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Bentonite grout

ELEVATION/DEPTH TOP OF SEAL: / 21.5

TYPE OF SEAL: Bentonite chips (hydrated)

DEPTH TOP OF SAND PACK: 27

ELEVATION/DEPTH TOP OF SCREEN: / 30

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: / 35

ELEVATION/DEPTH BOTTOM OF SAND PACK: /
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: / 35

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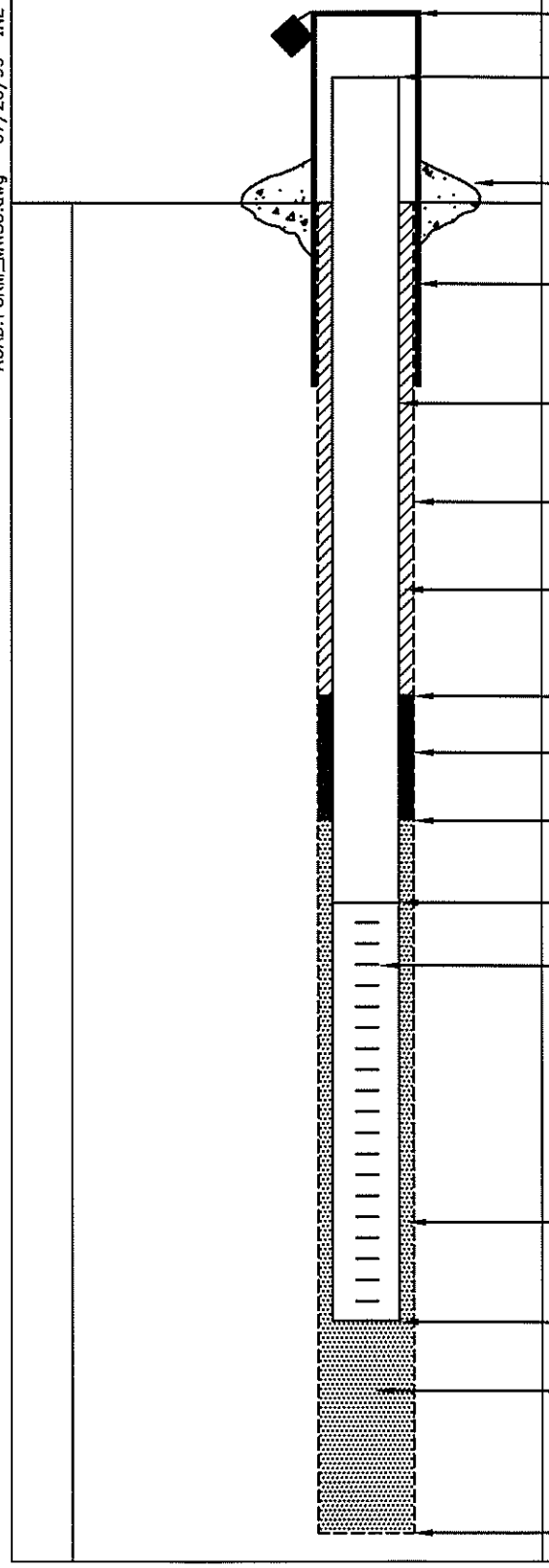
WELL NO.: SA-PZ-145D

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION Southern Area	DRILLER Evan Moraitis
PROJECT NO. 112G01655	BORING SA-SB-145	DRILLING METHOD DPT
DATE BEGUN 6-23-10	DATE COMPLETED 6-23-10	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD
GROUND ELEVATION	DATUM	



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: / 3

ELEVATION/HEIGHT OF TOP OF RISER PIPE: / 3

TYPE OF SURFACE SEAL: Concrete pad

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Steel

RISER PIPE I.D.: 1"
TYPE OF RISER PIPE: PVC (schedule 40)

BOREHOLE DIAMETER: 3 1/4"

TYPE OF BACKFILL: Benonite grout

ELEVATION/DEPTH TOP OF SEAL: / 44'

TYPE OF SEAL: Bentonite chips (hydrated)

DEPTH TOP OF SAND PACK: 47.5

ELEVATION/DEPTH TOP OF SCREEN: / 50'

TYPE OF SCREEN: Prepacked screen

SLOT SIZE x LENGTH: 0.010" x 5'

I.D. OF SCREEN: 1"

TYPE OF SAND PACK:

ELEVATION/DEPTH BOTTOM OF SCREEN: / 55'

ELEVATION/DEPTH BOTTOM OF SAND PACK: /
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: / 55'

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WELL NO.: SA-PZ-148

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
STICK-UP

PROJECT NWIRP Calverton	LOCATION SA-PZ-148	DRILLER Hand driven J. Birkett V. Shickora
PROJECT NO. 112G01655	BORING	DRILLING METHOD Drive Point and sledge
DATE BEGUN July 20, 2010	DATE COMPLETED July 20, 2010	
FIELD GEOLOGIST J. Birkett		DEVELOPMENT METHOD —
GROUND ELEVATION	DATUM	

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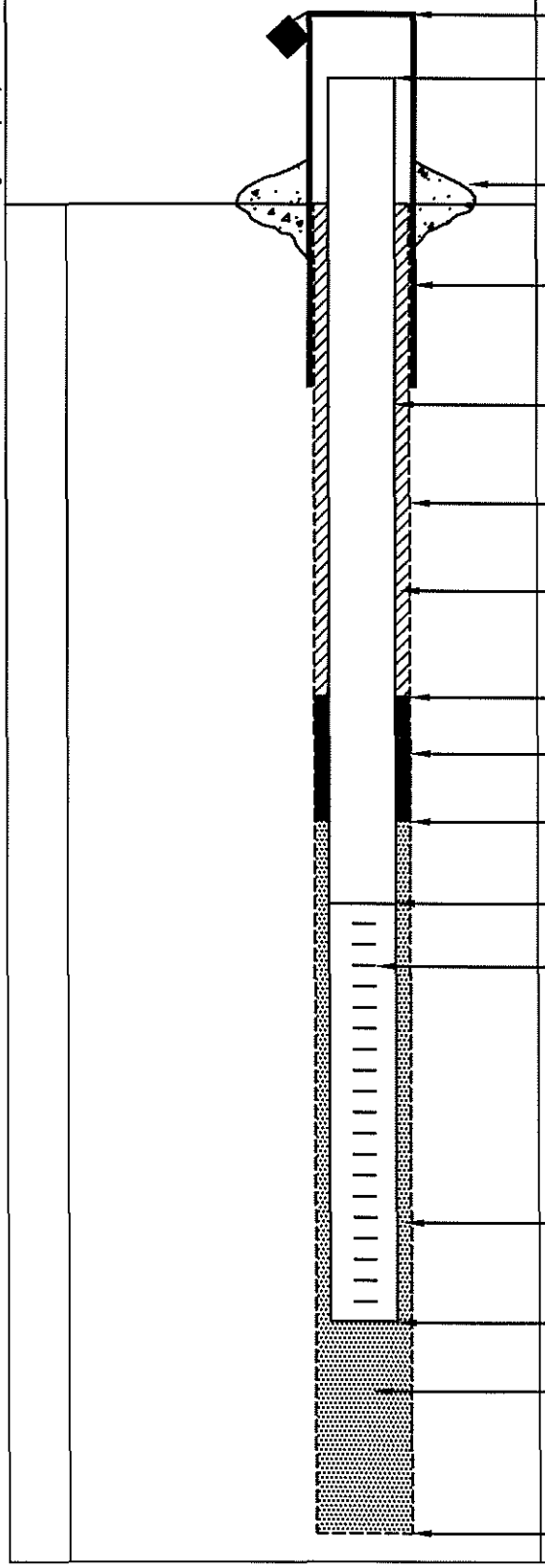


ELEVATION/HEIGHT OF TOP OF SURFACE CASING: /

ELEVATION/HEIGHT OF TOP OF RISER PIPE: /2

TYPE OF SURFACE SEAL: None

I.D. OF SURFACE CASING: NA
TYPE OF SURFACE CASING: None

RISER PIPE I.D.: 1¼"
TYPE OF RISER PIPE: Stainless Steel

BOREHOLE DIAMETER: NA

TYPE OF BACKFILL: NA

ELEVATION/DEPTH TOP OF SEAL: / NA

TYPE OF SEAL: NA

DEPTH TOP OF SAND PACK: NA

ELEVATION/DEPTH TOP OF SCREEN: /3

TYPE OF SCREEN: Custom Made S.S. drive point

SLOT SIZE x LENGTH: 0.01" x 5'

I.D. OF SCREEN: 1¼"

TYPE OF SAND PACK: NA

ELEVATION/DEPTH BOTTOM OF SCREEN: /6

ELEVATION/DEPTH BOTTOM OF SAND PACK: /
BACKFILL MATERIAL BELOW SAND:

ELEVATION/DEPTH OF HOLE: /

WELL NO.: SA-PZ-147

Tetra Tech NUS, Inc.

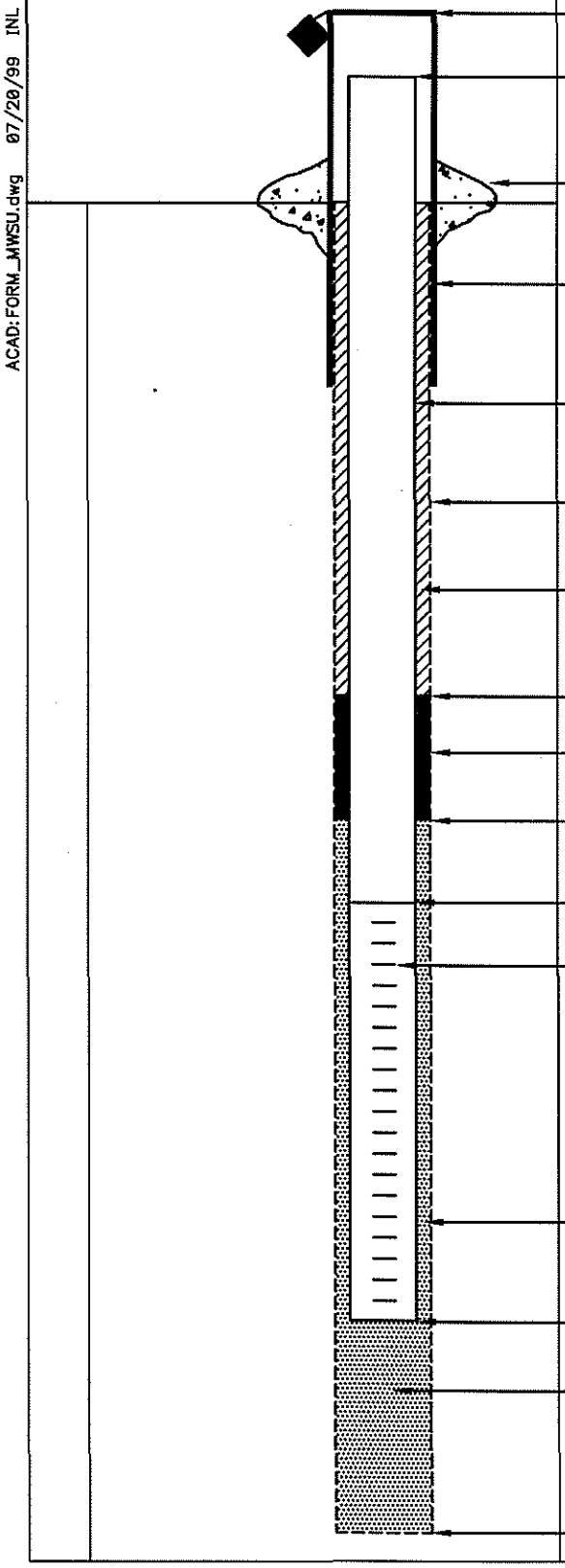
OVERBURDEN
MONITORING WELL SHEET
STICK-UP

V. Shickora

PROJECT NWIRP Calverton
PROJECT NO. 112G01655
DATE BEGUN July 20, 2010
FIELD GEOLOGIST J. Birkett
GROUND ELEVATION ____

LOCATION SA-PZ-147
BORING ____
DATE COMPLETED July 20, 2010
DATUM ____

DRILLER Hand driven ~~drt.~~ J. Birkett
DRILLING METHOD Drive Point and Sledge
DEVELOPMENT METHOD ____



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: /
ELEVATION/HEIGHT OF TOP OF RISER PIPE: /2
TYPE OF SURFACE SEAL: none
I.D. OF SURFACE CASING: NA
TYPE OF SURFACE CASING: none
RISER PIPE I.D.: 1¼"
TYPE OF RISER PIPE: Stainless Steel
BOREHOLE DIAMETER: NA
TYPE OF BACKFILL: NA
ELEVATION/DEPTH TOP OF SEAL: /NA
TYPE OF SEAL: NA
DEPTH TOP OF SAND PACK: NA
ELEVATION/DEPTH TOP OF SCREEN: /3
TYPE OF SCREEN: Custom Made S.S. drive point
SLOT SIZE x LENGTH: 0.01" x 5'
I.D. OF SCREEN: 1¼"
TYPE OF SAND PACK: NA
ELEVATION/DEPTH BOTTOM OF SCREEN: /6
ELEVATION/DEPTH BOTTOM OF SAND PACK: /
BACKFILL MATERIAL BELOW SAND: ____
ELEVATION/DEPTH OF HOLE: /

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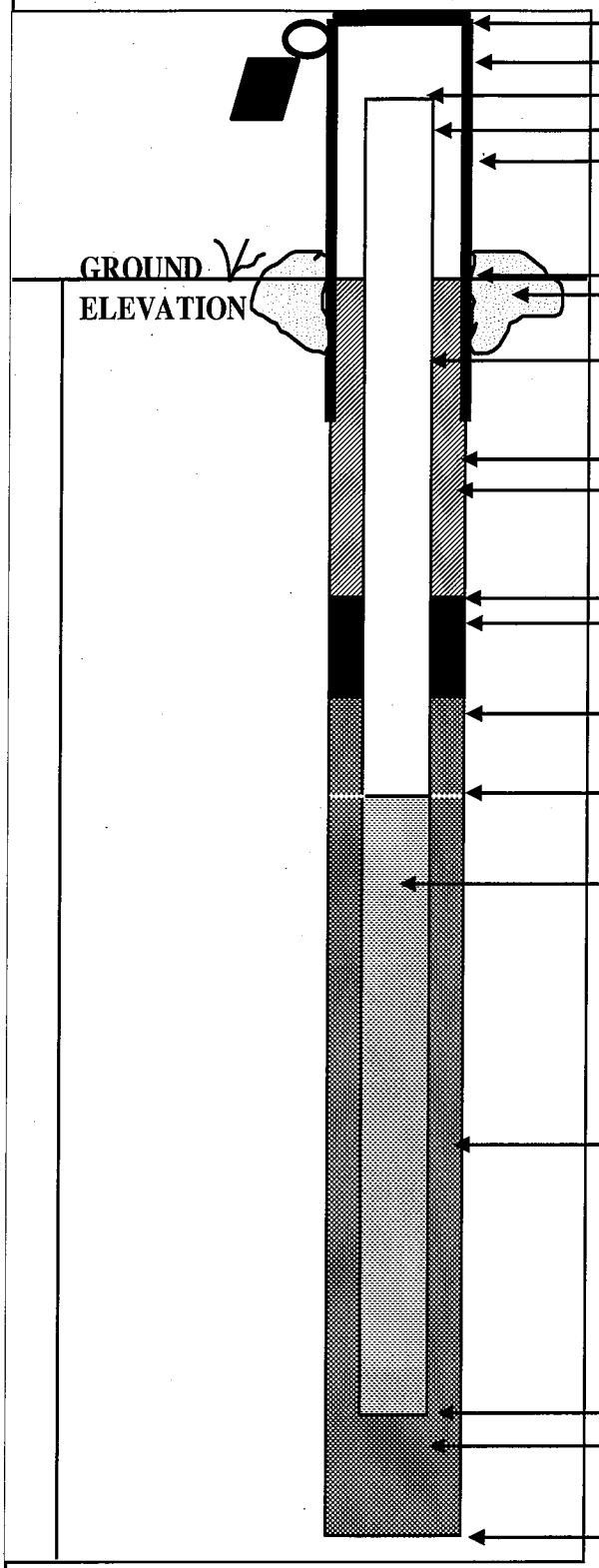
Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

BORING NO.: SAPZ166I

PROJECT:	Calverton	DRILLING Co.:	Delta	BORING No.:	SAPZ166I
PROJECT No.:	112G02045	DRILLER:	CONRAD S.	DATE COMPLETED:	6/25/10
SITE:	Pump Test Event	DRILLING METHOD:	HSA	NORTHING:	270231.552
GEOLOGIST:	CONTI	DEV. METHOD:	PUMP	EASTING:	1323100.387



ELEVATION OF TOP OF SURFACE CASING: 33.57
STICK -UP TOP OF SURFACE CASING: 3.41
ELEVATION OF TOP OF RISER PIPE: 33.03
RISER STICK-UP ABOVE GROUND SURFACE: 2.87
I.D. OF SURFACE CASING: 6"
TYPE OF SURFACE CASING: STEEL

GROUND ELEVATION: 30.16
TYPE OF SURFACE SEAL: CONC PAD

RISER PIPE I.D.: 2"
TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8"
TYPE OF SEAL: CEMENT / BENTONITE GROUT

ELEVATION / DEPTH OF SEAL: 152
TYPE OF SEAL: CETCO 1/4" BENTONITE PELLETS

ELEVATION / DEPTH TOP OF FILTER PACK: 157

ELEVATION / DEPTH TOP OF SCREEN: 160

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 20 SL X 20'

I.D. OF SCREEN: 2"

TYPE OF FILTER PACK: FILPRO WG#1 SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 180

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 180.5

TYPE OF BACKFILL BELOW WELL: #1 WG

ELEVATION / DEPTH OF BOREHOLE: 180.5

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: PZ-133I
Site: Southern Area
Date Installed: ____
Date Developed: 3-30-10
Dev. Method: Hard surge
Pump Type: Check Valve

Depth to Bottom (ft.): ~~49.9~~ 50.20
Static Water Level Before (ft.): 5.41
Static Water Level After (ft.): ____
Screen Length (ft.): 5
Specific Capacity: ____
Casing ID (in.): 4" PVC

Responsible Personnel: J. Birkett
Drilling Co.: ____
Project Name: NWIRP Calverton
Project Number: 112-G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1215		<	5.41					ORP brown muddy
1224		10		11.13	6.15	0.12	1003	69
1231		15		11.29	6.21	0.11	168	95
1238		20		11.32	6.21	0.11	44.6	106
1242		25		11.32	6.16	0.11	67	110
1247		30		11.39	6.15	0.11	140	99
1253		35		11.37	6.16	0.11	44.9	120
1300		40		11.42	6.16	0.11	31.8	123

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: PZ-133I1 (shallow) Depth to Bottom (ft.): 43.42 Responsible Personnel: J. Birkett
Site: Southern Area Static Water Level Before (ft.): 5.39 Drilling Co.:
Date Installed: Static Water Level After (ft.): Project Name: NWIRP Calverton
Date Developed: 3-30-10 Screen Length (ft.): 5 Project Number: 112G01655
Dev. Method: Hand surge Specific Capacity:
Pump Type: Check valve Casing ID (in.): 1" PVC

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1110			5.39					ORP Muddy brown
1125		10		11.04	6.26	0.11	4023	6
1134		15		11.22	6.29	0.09	6760	24
1142		20		11.00	6.27	0.09	469	38
1146		25		11.34	6.36	0.09	176	51
1152		30		11.27	6.31	0.09	115	52
1157		35		11.37	6.31	0.09	66.7	55
1202		40		11.42	6.29	0.09	108	52

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: PZ-135
Site: Southern Area
Date Installed: _____
Date Developed: 3-29-10
Dev. Method: Hand Develop (surge)
Pump Type: check valve

Depth to Bottom (ft.): 48.71
Static Water Level Before (ft.): 3.33
Static Water Level After (ft.): 3.25
Screen Length (ft.): 5
Specific Capacity: _____
Casing ID (in.): 1" PVC

Responsible Personnel: J. Birkett
Drilling Co.: _____
Project Name: _____
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) ORP
1630		-	3.33				out of range	muddy (gray-brown)
1641		10		11.81	6.00	0.17	out of range	-23
1650		15		11.69	6.10	0.12	287	91
1703		20	3.30	11.65	5.97	0.12	96.1	123
1713		25		11.74	5.92	0.11	55.1	146
1719		30		11.75	5.95	0.12	53.9	101
1725		35		11.74	5.92	0.12	229	109
1731		40		11.70	5.84	0.12	189	122

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: PZ-136
Site: Southern Area
Date Installed:
Date Developed: 3-30-10
Dev. Method: Hand surge
Pump Type: check valve

Depth to Bottom (ft.): 51.02
Static Water Level Before (ft.): 2.85
Static Water Level After (ft.):
Screen Length (ft.): 5
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: J. Birkett
Drilling Co.:
Project Name: NWIRP Calverton
Project Number: 112G00655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
0824			2.85				out of rng	ORP brown muddy
0844		10		11.11	5.55	0.30	out of range	-1
0853		15		11.10	6.11	0.15	out of range	17
0901		20		10.88	6.18	0.14	out of range	40
0909		25		11.06	6.19	0.13	O.o.R	40
0912		30		10.98	6.16	0.13	O.o.R	40
0930		35		10.97	6.14	0.12	out of Range	54
0940		40		10.88 608	6.05	0.12	O of R	59
1050		80		10.88	6.05	0.12	O out of Range	36 Lots of clay

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: PZ-137
Site: Calverton Southern Area
Date Installed: _____
Date Developed: 3-29-10
Dev. Method: Hand surge
Pump Type: Check valve

Depth to Bottom (ft.): 56.45
Static Water Level Before (ft.): 6.21
Static Water Level After (ft.): 6.08
Screen Length (ft.): 5
Specific Capacity: _____
Casing ID (in.): 1" PVC

Responsible Personnel: J. Birkett
Drilling Co.: _____
Project Name: NWIRP Calverton
Project Number: 112GN1612

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1450			6.21					ORP
1512		10	~~6.34~~	11.74	5.32	0.26	out of range	28 ~~DTF~~
1520		15	~~6.05~~ 6.32	11.57	6.05	0.13	563	32
1527		20	~~6.2~~	11.60	6.26	0.11	124	55
1537		25		11.55	6.26	0.12	228	29
1546		30		11.52	6.27	0.11	83.9	58
1552		25		11.50	6.26	0.11	70.3	62
1600		40		11.47	6.16	0.11	78.4	59

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-140
Site: Southern Area
Date Installed: _____
Date Developed: 6-23-10
Dev. Method: Check valve
Pump Type: _____

Depth to Bottom (ft.): 50'
Static Water Level Before (ft.): 13.52
Static Water Level After (ft.): _____
Screen Length (ft.): 5"
Specific Capacity: _____
Casing ID (in.): 1"

Responsible Personnel: Jacob Birkett Chris F
Drilling Co.: Zebr
Project Name: Galveston
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1045		0	13.52				—	
1100		5	13.53				5957	Silty
1115		7.5	—				1053	
1120		10					768	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Page ___ of ___

Well: SA-PZ-141
Site: Southern Area
Date Installed: ___
Date Developed: 6-28-10
Dev. Method: Check valve
Pump Type: ___

Depth to Bottom (ft.): 55.5'
Static Water Level Before (ft.): 13.42
Static Water Level After (ft.): ___
Screen Length (ft.): 5'
Specific Capacity: ___
Casing ID (in.): 1"

Responsible Personnel: Jacob Birkett
Drilling Co.: Zebra
Project Name: Calverton
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1109			13.42					
1118		2 gal	49.68				brown	Dry
1145		2 gal	30.01				brown	
1150		3.5 gal					brown	Dry
1305	Restart							
1312		5 gal	46.32				light brown	Dry

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-142 Depth to Bottom (ft.): 50' Responsible Personnel: Jacob Birkett
Site: Southern Area Static Water Level Before (ft.): 15.03 Drilling Co.: Zebra
Date Installed: _____ Static Water Level After (ft.): 15.04 Project Name: Calverton
Date Developed: 6-28-10 Screen Length (ft.): 5 Project Number: 112G01655
Dev. Method: Check valve Specific Capacity: _____
Pump Type: _____ Casing ID (in.): 1"

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1140		0	15.03				—	
1150		2.5	—				46.6	Very turbid
1155		5	15.04				798	
1200		7.5					663	
1205		10	15.04				301	
1325		10	15.03				—	
1330		12.5	—				227	
1335		15	15.04				118	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-143 Depth to Bottom (ft.): 50' Responsible Personnel: Jacob Birkett Chris F

Site: Southern Area Static Water Level Before (ft.): 14.47 Drilling Co.: Zebra

Date Installed: _____ Static Water Level After (ft.): _____ Project Name: Calverton

Date Developed: 6-28-10 Screen Length (ft.): 5' Project Number: 112G01655

Dev. Method: _____ Specific Capacity: _____

Pump Type: Check valve Casing ID (in.): 1"

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1347			14.47					
1355		2.5 gal					7864	
1359		5 gal				2399	2399	
1404		7.5 gal					1129	
1406		10 gal					1193	
1408		12.5 gal					921	
1410		15 gal					1069	
1412		17.5 gal					1924	
1414		20 gal	14.68				274	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-1445
Site: Southern Area
Date Installed: _____
Date Developed: 6-28-10
Dev. Method: Check valve
Pump Type: _____

Depth to Bottom (ft.): _____
Static Water Level Before (ft.): 9.12
Static Water Level After (ft.): _____
Screen Length (ft.): 10'
Specific Capacity: _____
Casing ID (in.): 1"

Responsible Personnel: Jacob Birkett, Chris Fedik
Drilling Co.: Zebra
Project Name: Calverton
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1540		2.5					1435	
1551		5					172	relatively turbid
1600		7.5					99.5	
1605		10	9.12				46.5	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-144I
Site: Southern Area
Date Installed: _____
Date Developed: 6-28-10
Dev. Method: Check valve
Pump Type: _____
Depth to Bottom (ft.): _____
Static Water Level Before (ft.): 9.05
Static Water Level After (ft.): 9.09
Screen Length (ft.): 5'
Specific Capacity: _____
Casing ID (in.): 1"
Responsible Personnel: Jacob Birkett
Drilling Co.: Zebra
Project Name: Calverton
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1536			9.05					
1541		5 gal					986	
1547		8 gal					637	
1551		12 gal					396	
1557		16 gal					3903	
1602		20 gal					2604	
1608		24 gal					3004	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

17.74'

Well: SA-PZ-145S' Depth to Bottom (ft.): ~~9.22~~ CF Responsible Personnel: Jacob Birkett Chris F

Site: Southern Area Static Water Level Before (ft.): 9.22' Drilling Co.: Zebra

Date Installed: _____ Static Water Level After (ft.): 9.21' Project Name: Calverton

Date Developed: 6-29-10 Screen Length (ft.): 10' Project Number: 112G01655

Dev. Method: Check valve Specific Capacity: _____

Pump Type: _____ Casing ID (in.): 1" * Total depth (From TOC) =

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units µS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
815		0	9.22				—	
825		2.5	—				17,463 +	
830		5	9.19	17.68	4.76	0.208	12,807+	
840 →		7.5	—	15.94	4.78	0.148	5,547+	
850		10	9.23	16.72	4.78	0.137	2,871+	
855		12.5	—	15.19	4.73	0.138	2,648+	
905		15	[redacted]	16.52	4.66	0.122	1,497	
910		17.5	—	15.41	4.73	0.126	1,929	
915		20	9.21	15.09	4.86	0.168	1,193	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-145I
Site: Southern Area
Date Installed: _____
Date Developed: 6-29-10
Dev. Method: Check value
Pump Type: _____
Depth to Bottom (ft.): 37.72'
Static Water Level Before (ft.): 9.42
Static Water Level After (ft.): 9.43
Screen Length (ft.): 5
Specific Capacity: _____
Casing ID (in.): 1"
Responsible Personnel: Jacob Birkett
Drilling Co.: Zebra
Project Name: Calverton
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
			9.42					
0827		2.5		16.75	5.78	0.233	Out of range	light brown
0833		5		16.41	6.21	0.122	Out of range	light brown
0839		7.5		14.10	5.92	0.102	Out of range	light brown
0844		10		13.48	5.71	0.099	Out of range	light brown
0848		12.5		13.31	5.61	0.095	Out of range	light brown
0851		15		13.98	5.57	0.101	7172	light brown
0858		17.5		13.73	5.50	0.094	3670	light brown
0901		20		13.36	5.54	0.095	3949	light brown
0906		22.5		13.34	5.51	0.094	1865	light brown
0910		25	9.43	13.38	5.49	0.093	1747	light brown

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-PZ-145D
Site: Southern Area
Date Installed: _____
Date Developed: 6-29-10
Dev. Method: Check valve
Pump Type: _____

Depth to Bottom (ft.): ~~8.39~~ 57.80 CF
Static Water Level Before (ft.): 8.39
Static Water Level After (ft.): 8.42
Screen Length (ft.): 5'
Specific Capacity: _____
Casing ID (in.): 1"

Responsible Personnel: Jacob Birkett Chris F
Drilling Co.: Zebra
Project Name: Calvert
Project Number: 112G01655

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units S/m)	Turbidity (NTU)	Remarks (odor, color, etc.)
945		0	8.39	—	—	—	—	
950		2.5	—	14.82	6.53	0.096	Too high	Very turbid
952		5	—	13.98	6.64	0.083	2,175+	
953		7.5	—	12.82	6.55	0.098	1,534	
955		10	—	13.35	6.43	0.092	1,014	
956		12.5	—	12.39	6.32	0.077	783	
957		15	—	13.90	6.04	0.075	307	
959		17.5	—	13.02	5.87	0.074	196	
1001		20	— 8.42	13.14	5.88	0.074	162	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 166I
Site: CALVERTON
Date Installed: 6/25/10
Date Developed: 7/6/10
Dev. Method: PUMP
Pump Type: GRUNDFOS

Depth to Bottom (ft.): 80.5
Static Water Level Before (ft.): 3.52
Static Water Level After (ft.): 3.54
Screen Length (ft.): 20
Specific Capacity: —
Casing ID (in.): 2" ϕ

Responsible Personnel: Conti
Drilling Co.: Delta
Project Name: NWIRP Calverton Pump Test
Project Number: 112G02045

(~1.25 GPM)

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
0900	—		—	—	—	—	—	
1010	—	87.5	3.52	—	6.09	.357	108	CLOUDY
1020	—	100	"	21.93	6.46	.882	44	"
1030	—	112.5	"	21.86	6.44	.810	31	SL CLOUDY
1040	—	125	"	21.68	6.51	.818	18	CLEAR
1050	—	137.5	"	21.65	6.49	.90	18.3	"
1100	—	150	3.54	20.97	6.50	.96	14	"

APPENDIX D

MONITORING WELL GROUNDWATER SAMPLE LOG SHEETS AND LOW FLOW PURGE DATA SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[x] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-133J-20100331
Sample Location: PZ-133J
Sampled By: JB
C.O.C. No.:
Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1208	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.98	0.120	11.21	1.53	0.00	0.0	104

PURGE DATA:

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): ~~0~~								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 50.20								
Static Water Level (WL): 5.79								
One Casing Volume(gal/L):								
Start Purge (hrs): 1120								
End Purge (hrs): 1208								
Total Purge Time (min): 48								
Total Vol. Purged (gal/L): 3.5 gal								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40mL VOA vials	~~3~~
Samples split w/ Suffolk			
County Health Dept			
↓			
VOCs	HCl	40 ml vials	2
Total Metals	HNO_3 (at lab)	250 ml poly	1
Perchlorate (field filter)	None	60 ml poly jar	1
Inorganics (Nitrate, Nitrite, etc)	None	250 ml poly	1

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
~~—~~	~~—~~

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: PZ-133I
DATE: 3-31-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1120	5.79									
1123	5.79	250	6.31	0.152	23.2	6.60	10.75	77	0.0	
1128	5.80	250	6.03	0.125	6.89	0.45	10.95	107	0.0	
1135	5.80	250	5.94	0.122	2.86	0.00	11.07	115	0.0	
1140	5.80	250	5.96	0.123	2.69	0.00	11.04	113	0.0	
1145	5.80	250	5.98	0.122	3.73	0.00	11.10	109	0.0	
1150	5.82	250	5.98	0.121	3.27	0.00	11.14	107	0.0	
1155	5.82	250	5.98	0.121	2.76	0.00	11.19	105	0.0	
1200	5.82	250	5.98	0.120	1.41	0.00	11.19	104	0.0	
1205	5.82	250	5.98	0.120	1.53	0.00	11.21	104	0.0	
1208	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-133I1-20100331
Sample Location: PZ-133I1
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1100								
Method: Low Flow	clear	6.27	0.098	11.21	2.59	6.30	0.0	

PURGE DATA:

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 43.42								
Static Water Level (WL): 5.75								
One Casing Volume(gal/L):								
Start Purge (hrs): 1015								
End Purge (hrs): 1100								
Total Purge Time (min): 45 min								
Total Vol. Purged (gal/L): 3 1/4 gal								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40mL VOA vials	3
Samples split w/ Suffolk			
County Health Dept.			
↓			
VOCs	HCl	40 ml vials	2
Total Metals	HNO_3 (at lab)	250ml poly	1
Perchlorate (field filter)	none	60 ml poly jar	1
Inorganics (Nitrate, Nitrite, etc)	none	250 ml poly	1

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Time 1200
—	SA-Dup01-20100331	

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: ~~PZ-133I1~~ NWIRP Calverton Southern Area WELL ID.: PZ-133I1
PROJECT NUMBER: 112G01655 DATE: 3-31-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1015	5.75									
1017	5.75	200	6.44	0.142	23.3	10.10	10.30	-5	0.0	
1022	5.78	200	6.47	0.115	13.9	9.59	10.77	-11	0.0	
1027	5.79	200	6.42	0.109	6.72	9.24	10.92	-7	0.0	
1032	5.78	200	6.36	0.103	3.49	8.78	11.02	-3	0.0	
1037	5.78	200	6.32	0.101	2.56	8.26	11.07	-0	0.0	
1042	5.78	200	6.30	0.100	1.85	7.98	11.10	1	0.0	
1047	5.78	200	6.28	0.100	2.19	7.50	11.15	1	0.0	
1052	5.78	200	6.27	0.099	2.19	7.09	11.12	2	0.0	
1057	5.78	200	6.27	0.098	2.59	6.80	11.21	2	0.0	
1100	collect sample	and duplicate								

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-134-20100331
Sample Location: PZ-134
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1317	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.85	0.107	10.77	5.03	0.00	0.0	68

PURGE DATA:

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 46.74								
Static Water Level (WL): 3.46								
One Casing Volume(gal/L):								
Start Purge (hrs): 1231								
End Purge (hrs): 1317								
Total Purge Time (min): 46								
Total Vol. Purged (gal/L): 3 gal								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40mL VOA vial	3
Samples split w/ Suffolk County Health Dept			
↓			
VOCs	HCl	40ml vials	2
Total Metals	HNO_3 (at lab)	250ml poly	1
Perchlorate (Field Filter)	None	60 ml poly jar	1
Inorganics (Nitrate, Nitrate, etc)	None	250 ml poly	1

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: PZ-134
DATE: 3-31-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1231	3.46									
1235	3.46	260	6.21	0.184	158	8.20	10.23	-10	0.0	
1240	3.46	260	6.10	0.126	57.0	0.00	10.72	16	0.0	
1245	3.46	260	5.96	0.117	35.7	0.00	10.74	42	0.0	
1250	3.46	260	5.91	0.112	11.6	0.00	10.78	53	0.0	
1255	3.47	260	5.88	0.110	8.14	0.00	10.83	62	0.0	
1259	3.47	260	5.87	0.109	6.58	0.00	10.80	65	0.0	
1304	3.47	260	5.85	0.108	6.25	0.00	10.79	66	0.0	
1309	3.47	260	5.85	0.108	4.69	0.00	10.77	67	0.0	
1314	3.47	260	5.85	0.107	5.03	0.00	10.77	68	0.0	
1317	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-135-20100331
Sample Location: PZ-135
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 3-31-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 1617								
Method: Low Flow	clear	5.75	0.123	10.83	3.52	0.00	0.0	109

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 3-31-10								
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 48.71								
Static Water Level (WL): 2.34								
One Casing Volume(gal/L):								
Start Purge (hrs): 1527								
End Purge (hrs): 1617								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 3.5 gal								

Low Flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40mL VOA vials	3
Samples split with Suffolk			
County Health Dept			
↓			
VOCs	HCl	40 ml vials	2
Total Metals	HNO3 (at lab)	250 ml poly	1
Perchlorate (Field filter)	None	60ml poly jar	1
Inorganics (Nitrate, Nitrite, etc)	None	250ml poly	1

OBSERVATIONS / NOTES:

Well submerged in 1 foot of water

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Jared Bikowski

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: PZ-135
DATE: 3-31-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1527	2.34									pad flooded by 1 ft water
1530	2.38	275	6.06	0.155	126	3.13	10.19	32	0.0	
1535	2.39	275	6.00	0.139	39.5	0.52	10.50	26	0.0	
1540	2.35	250	5.84	0.126	11.1	0.00	10.78	72	0.0	
1546	2.36	250	5.81	0.125	9.97	0.00	10.82	83	0.0	
1551	2.36	250	5.79	0.124	6.13	0.00	10.72	92	0.0	
1556	2.36	250	5.78	0.124	7.67	0.00	10.79	97	0.0	
1601	2.36	250	5.77	0.124	5.03	0.00	10.84	101	0.0	
1606	2.36	250	5.77	0.123	3.55	0.00	10.84	105	0.0	
1611	2.36	250	5.76	0.123	3.76	0.00	10.84	107	0.0	
1615	2.36	250	5.75	0.123	3.52	0.00	10.83	109	0.0	
1617	collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-136-20100331
Sample Location: PZ-136
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 3-31-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 1448								
Method: Low Flow	Clear	6.10	0.129	10.23	233	3.33	0.0	-7

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 3-31-10								
Method: Low Flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 51.02								
Static Water Level (WL): 2.92								
One Casing Volume(gal/L):								
Start Purge (hrs): 1349								
End Purge (hrs): 1448								
Total Purge Time (min): 59								
Total Vol. Purged (gal/L): 4 gal								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40mL VOA vials	3
Samples split w/ Suffolk			
County Health Dept			
↓			
VOCs	HCl	40ml vials	2
Total Metals	HNO_3 (at lab)	250 ml poly	1
Perchlorate (Field filter)	None	60 ml poly jar	1
Inorganics (Nitrate, Nitrite, etc.)	None	250ml poly	1

OBSERVATIONS / NOTES:

well submerged in 4 inches of water
turbidity during development very high, but low flow achieved 233 NTU

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: PZ-136
DATE: 3-31-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1349	3.92									pad in 4" of water
1352	3.18	250	6.17	0.173	765	10.13	9.37	-13	0.0	
1357	3.21	250	6.23	0.171	Too turbid	0.80	9.89	-58	0.0	
1402	3.25	250	6.42	0.148	1298	5.60	10.09	-80	0.0	
1407	3.27	250	6.38	0.138	245	5.16	10.16	-59	0.0	
1414	3.28	250	6.23	0.134	194	4.60	10.27	-27	0.0	
1420	3.28	250	6.18	0.133	133	4.40	10.24	-23	0.0	
1425	3.28	250	6.16	0.131	44.7	4.14	10.21	-17	0.0	
1430	3.28	250	6.13	0.131	53.2	3.91	10.23	-14	0.0	
1435	3.28	250	6.11	0.130	29.8	3.67	10.23	-10	0.0	
1440	3.28	250	6.10	0.130	26.7	3.47	10.23	-8	0.0	
1445	3.28	250	6.10	0.129	23.3	3.33	10.23	-7	0.0	
1448	collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-137-20100331
Sample Location: PZ-137
Sampled By: JBB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-31-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0940	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.27	0.133	10.28	7.75	0.00	0.0	4

PURGE DATA:

Date: 3-31-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 56.45								
Static Water Level (WL): 5.38								
One Casing Volume(gal/L):								
Start Purge (hrs): 0853								
End Purge (hrs): 0940								
Total Purge Time (min): 47								
Total Vol. Purged (gal/L): 2.5 gal								

Low Flow purge — See sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL VOA vial	3
Samples split w/ Suffolk			
County Health Dept			
↓			
VOCs	HCl	40 ml vial	2
Total Metals	HNO_3 (at lab)	250 ml poly	1
Perchlorate (field filter)	none	60 ml poly jar	none
Inorganics (Nitrate, Nitrite, etc)	none	250 ml poly	none

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Jared Bubb

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Arm
PROJECT NUMBER: 112G01655
WELL ID.: PZ-137
DATE: 3-31-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0853	5.38									
0858	5.40	200	6.27	0.20	244	1.83	9.94	-60	0.0	
0903	5.40	200	6.40	0.15	83.9	0.05	10.06	-33	0.0	
0907	5.40	200	6.36	0.136	37.4	0.00	10.12	-15	0.0	
0912	5.40	200	6.34	0.135	21.3	0.00	10.19	-9	0.0	
0917	5.40	200	6.30	0.135	17.7	0.00	10.25	-5	0.0	
0922	5.40	200	6.29	0.135	15.6	0.00	10.26	-5	0.0	
0927	5.40	200	6.30	0.135	10.82	0.00	10.24	-3	0.0	
0932	5.40	200	6.27	0.134	6.27	0.00	10.25	2	0.0	
0937	5.40	200	6.27	0.133	7.75	0.00	10.28	4	0.0	
0940	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-138-20100401 0401
Sample Location: PZ-138
Sampled By: JB

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

C.O.C. No.: 2614
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 4-1-2010	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0944								
Method: Low Flow	clear	6.15	0.126	10.80	3.53	2.15	-46	0.0

PURGE DATA:

Date: 4-1-10	
Method: Low Flow	
Monitor Reading (ppm): —	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 1" PVC	
Total Well Depth (TD): 56.29	
Static Water Level (WL): 2.25	
One Casing Volume(gal/L):	
Start Purge (hrs): 0842	
End Purge (hrs): 0944	
Total Purge Time (min): 62	
Total Vol. Purged (gal/L): 5 gal	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	yes
~~MEE~~	~~HCL/4 DEG C~~	~~2- 40ml vials~~	
Split sample w/ Suffolk County Dept Health			
↓			
VOCs	HCl	40ml vial glass	2
Total Metals	HNO_3 (at lab)	250 ml poly	1
Perchlorate (Field Filter)	none	60 ml poly bottle	1
Inorganics (Nitrate, Nitrite, etc)	none	250 ml poly	1

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~

~~Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.~~

~~Not enough volume for water quality parameters~~
Check box if not enough volume. [ ]

~~Used pH paper instead of water quality meter~~
Check box if used pH paper. [ ]

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: PZ-138
DATE: 4-1-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0842	2.25									
0846	2.30	275	5.78	0.215	27.6	11.57	9.40	-124	0.0	
0851	2.32	275	6.63	0.217	280	9.24	9.81	-98	0.0	slight brown tint
0856	2.30	275	6.62	0.186	79.2	7.81	10.13	-85	0.0	brown tint
0900	2.30	275	6.47	0.162	28.2	6.95	10.26	-64	0.0	
0905	2.30	275	6.30	0.153	15.4	5.90	10.40	-57	0.0	
0910	2.30	275	6.23	0.146	7.75	4.93	10.51	-54	0.0	
0916	2.30	275	6.20	0.137	6.83	4.18	10.59	-52	0.0	2.5 gal purged
0921	2.30	275	6.19	0.135	5.07	3.91	10.60	-51	0.0	
0926	2.30	275	6.18	0.131	5.54	3.33	10.66	-51	0.0	call SCDHS, ready to sample
0931	2.30	275	6.16	0.129	3.79	2.80	10.75	-49	0.0	but wait 15 minutes
0936	2.30	275	6.16	0.127	2.13	2.41	10.78	-48	0.0	
0941	2.30	275	6.15	0.126	3.53	2.15	10.80	-46	0.0	5 gal purged
0944	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-139-20100401 ~~0534~~
Sample Location: PZ-139
Sampled By: JB

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 4-1-10	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1120								
Method: Low Flow	clear	5.90	0.116	11.34	6.14	0.00	83	0.0

PURGE DATA:

Date: 4-1-10	
Method: Low Flow	
Monitor Reading (ppm): —	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 1" PVC	
Total Well Depth (TD): 50.20	
Static Water Level (WL): 5.60	
One Casing Volume(gal/L):	
Start Purge (hrs): 1024	
End Purge (hrs): 1120	
Total Purge Time (min): 56	
Total Vol. Purged (gal/L): 3.5 gal	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	yes
~~MEE~~	~~HCL/4 DEG C~~	~~2-40ml vials~~	
Split sample w/ Suffolk			
County Dept Health			
↓			
VOCs	HCl	40 ml glass vial	2
Total Metals	HNO_3 (at lab)	250 ml poly	1
Perchlorate (Field filter)	none	60 ml poly jar	1
Inorganics (Nitrate, Nitrite, etc.)	none	250 ml poly	1

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~

~~Sample taken at discreet intervals using a hydropunch sampler~~ unless otherwise noted.

Not enough volume for water quality parameters
Check box if not enough volume. ☐

Used pH paper instead of water quality meter
Check box if used pH paper. ☐

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	

Signature(s): —

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: PZ-139
DATE: 4-1-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1024	5.60									
1027	5.63	250	6.31	0.186	90.3	10.63	10.14	36	0.0	
1032	5.63	250	6.27	0.197	67.4	0.56	10.63	4	0.0	
1037	5.63	250	6.08	0.184	14.9	0.05	11.14	47	0.0	
1042	5.63	250	6.01	0.180	18.2	0.00	11.12	61	0.0	
1047	5.63	250	5.95	0.165	13.1	0.00	11.21	72	0.0	
1052	5.63	250	5.93	0.158	7.61	0.00	11.23	75	0.0	2 gal purged
1057	5.63	250	5.91	0.146	5.53	0.00	11.20	80	0.0	
1102	5.63	250	5.90	0.134	6.19	0.00	11.33	81	0.0	
1107	5.63	250	5.90	0.117	5.41	0.00	11.29	82	0.0	
1112	5.63	250	5.90	0.116	4.38	0.00	11.31	82	0.0	
1116	5.63	250	5.90	0.116	6.14	0.00	11.34	83	0.0	
1120	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Calverton - Southern Area
Project No.: 112G-01655

Sample ID No.: SA-PZ-140-20100630
Sample Location: SA-PZ-140
Sampled By: CF
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6/30/10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP (mV)
Time: 927								
Method: Low-Flow	Clear	6.10	0.150	12.76	0.77	1.71	0	-270

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6/30/10								
Method: Low-Flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" PVC riser								
Total Well Depth (TD): 52.21								
Static Water Level (WL): 13.59								
One Casing Volume(gal/L):								
Start Purge (hrs): 825								
End Purge (hrs): 927								
Total Purge Time (min): 62								
Total Vol. Purged (gal/L): 4 gal								

See Low-Flow purge data sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40 mL glass vials	9
Samples split w/ ~~SCDHES~~ SCDHS			
VOCs	HCl	2 x 40 mL glass vials	Yes
Total metals	HNO_3	1x500 mL poly	Yes
Inorganics (Nitrate, etc.)		1x500 mL poly	Yes

OBSERVATIONS / NOTES:

3 → Samples

6 → MS/MSD

Circle If Applicable:

MS/MSD	Duplicate ID No.:
Yes	

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP - Calverton - Southern Area
PROJECT NUMBER: 112G 01655
WELL ID.: SA-PZ-140
DATE: 6/30/10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
825	13.59	230	6.38	0.212	17.3	3.08	12.86	-345	0	
840	13.64	285	6.01	0.167	9.22	2.81	12.87	-317	0	O-ring leak (delay)
845	13.62	285	5.97	0.160	5.87	2.55	12.85	-315	0	
850	≈ Constant	285	5.98	0.156	3.63	2.30	12.82	-315	0	
855	≈ Constant	285	6.00	0.154	2.52	2.16	12.77	-311	0	
900	≈ Constant	285	6.02	0.153	2.52	2.11	12.74	-306	0	
905	≈ Constant	285	6.05	0.152	1.30	2.03	12.72	-295	0	
910	≈ Constant	285	6.06	0.153	0.85	1.68	12.76	-285	0	
915	≈ Constant	285	6.08	0.150	1.06	1.75	12.77	-282	0	
920	≈ Constant	285	6.10	0.150	1.06	1.72	12.77	-271	0	
925	≈ Constant	285	6.10	0.150	0.77	1.71	12.76	-270	0	
927	Sample Collected									

SIGNATURE(S): Darrell J. Fuller

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-141-20100630
Sample Location: SA-PZ-141
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1358	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	light brown	6.96	0.188	14.22	Out of range	1.83	0.0	-131

PURGE DATA:

Date: 6-30-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow	See low flow purge sheet							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 58.39								
Static Water Level (WL): 13.48								
One Casing Volume(gal/L):								
Start Purge (hrs): 1340								
End Purge (hrs): 1358								
Total Purge Time (min): —								
Total Vol. Purged (gal/L): 3 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL VOA vials	yes
Split samples w/ SCDHS			
VOCs	HCl		
Total Metals	HNO_3		
Inorganics	—		

OBSERVATIONS / NOTES:

Evacuated well w/ check valve in the morning, let recharge, sample in afternoon since well does not produce water very well
Collect two field parameters before sampling

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton – Southern Area
PROJECT NUMBER: 1126-01655
WELL ID.: SA-PZ-141
DATE: 6/29/10 6-30-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1600	17.42'	220	7.32	0.148	15,864+	0.73	13.48	-87	0	
1605	23.41'	200	7.19	0.154	2,908+	0.49	13.61	-86	0	
1610	26.88'	125	7.19	0.165	1,808	0.43	14.51	-96	0	
1615	28.46'	125	7.23	0.163	1,549	0.43	14.42	-104	0	
1620	30.15'	125	7.28	0.166	1,419	0.44	14.19	-110	0	
1625	30.91'	115	7.32	0.168	1,081	0.47	14.33	-114	0	pulling air bubbles
1630	31.46'	115	7.39	0.178	1,011	0.46	14.85	-118	0	
No Sample Collected – drawdown and lack of vials										
6-30-10 0822	13.48									
0835	46.91	Used	check	value to	evacuate	casing				2 gal purged
1332	14.50	Start	purging							
1335	17.70	100	6.48	0.207	Out of range	7.53	14.63	-201	0.0	
1340	19.42	100	7.10	0.178	Out of range	2.61	14.71	-251	0.0	
1345	23.40	100	7.06	0.176	Out of range	1.43	14.30	-194	0.0	
	Shut off pump	wait for	Joe (SCDHS)							
1354	21.70	Restart pump								
1357	24.21	100	6.96	0.188	Out of range	1.83	14.23	-131	0.0	
1358	Collect sample									1 gal purged
										3 gal purged on 6-30-10

SIGNATURE(S):

★ Total Depth of well = 58.39 Ft

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calv. Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-142-20100629
Sample Location: SA-PZ-142
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1511	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.91	0.151	13.22	3.01	2.19	0.0	-62

PURGE DATA:

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow	See	low	Flow	purge	sheet			
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type: 1" PVC								
Total Well Depth (TD): 48.32								
Static Water Level (WL): 15.07								
One Casing Volume(gal/L):								
Start Purge (hrs): 1426								
End Purge (hrs): 1511								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 3.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 - 40mL glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calv Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-142
DATE: 6-29-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1426	15.07									
1429	15.10	275	6.82	0.188	1438	4.08	14.93	-159	0.0	light brown
1434	15.11	250	6.29	0.169	171	3.14	13.95	-107	0.0	
1439	15.11	250	5.73	0.154	121	3.09	13.73	-52	0.0	1 gal purged
1444	15.11	250	5.71	0.154	19.2	2.21	13.73	-60	0.0	
1449	15.11	250	5.73	0.153	10.07	2.18	13.45	-60	0.0	
1454	15.11	250	5.79	0.154	5.65	2.27	13.16	-59	0.0	2 gal
1459	15.11	250	5.85	0.154	7.17	2.25	13.14	-60	0.0	
1504	15.11	250	5.90	0.153	4.34	2.23	13.17	-61	0.0	3 gal
1509	15.11	250	5.91	0.151	3.01	2.19	13.22	-62	0.0	
1511	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP – Calverton Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-143-2010062
Sample Location: SA-PZ-143
Sampled By: Chris Fodin
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/24/10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1522	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low-Flow	clear	5.96	0.154	12.99	16.2	0.73	11	11

PURGE DATA:

Date: 6/24/10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low-Flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 48.24'								
Static Water Level (WL): 14.78'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1420								
End Purge (hrs): 1522								
Total Purge Time (min): 62								
Total Vol. Purged (gal/L): 5 gal								

See Low Flow purge data sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40mL glass vials	3

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWRP - Calverton Southern Area
PROJECT NUMBER: 1126-01655
WELL ID.: SA-PZ-143
DATE: 6/29/10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1420	14.70	275	6.63	0.418	291	1.38	15.25	-13	0	
1425	14.69	275	6.61	0.520	123	1.31	14.34	-14	0	
1430	14.71	275	6.36	0.562	56.2	1.39	14.06	-3	0	
1435	≈ Constant	275	6.10	0.522	40.3	1.28	13.76	8	0	
1440	≈ Constant	275	5.94	0.410	28.7	1.13	13.49	14	0	
1445	≈ Constant	275	5.90	0.366	24.2	1.09	13.49	15	0	
1450	≈ Constant	275	5.87	0.299	25.8	1.04	13.34	16	0	
1455	≈ Constant	275	5.86	0.253	23.8	0.97	13.43	16	0	
1500	≈ Constant	275	5.87	0.221	19.8	0.94	13.27	15	0	
1505	≈ Constant	275	5.88	0.191	18.5	0.88	13.11	14	0	
1510	≈ Constant	275	5.91	0.171	16.7	0.85	13.05	14	0	
1515	≈ Constant	275	5.93	0.155	15.9	0.81	12.93	13	0	
1520	≈ Constant	275	5.96	0.154	16.2	0.78	12.99	11	0	
1522	Collected Sample									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton – Southern Area
Project No.: 112G-01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-1445-20100629
Sample Location: SA-PZ-1445
Sampled By: Chris Fosh
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/29/10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1257	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP(mV)
Method: Low Flow	Clear	5.40	0.81	15.09	2.75	2.46	0	83

PURGE DATA:

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 17.48								
Static Water Level (WL): 9.10								
One Casing Volume(gal/L):			Low-Flow data sheet					
Start Purge (hrs): 1220		602						
End Purge (hrs): 1255								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 mL glass Vial	3

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Christopher J. Fosh

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton - Southern Area
PROJECT NUMBER: 112G-01655
WELL ID.: SA-PZ-144S
DATE: 6/29/10

* was not using LaMotte until noted

	Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
	1150	9.10	275	6.12	0.156	— *	5.44	17.34	165	0	
	1220	9.12	275	6.04	0.106	— *	2.93	15.64	114	0	
	1225	9.11	275	5.28	0.101	— *	2.75	15.30	122	0	
	1230	≈ Constant	275	5.18	0.097	— *	2.47	15.18	117	0	
	1235	≈ Constant	275	5.21	0.095	4.94	2.34	15.08	105	0	
	1240	≈ Constant	275	5.24	0.095	3.06	2.43	15.15	99	0	
	1245	≈ Constant	275	5.30	0.093	1.77	2.47	15.19	93	0	
	1250	≈ Constant	275	5.33	0.093	4.07	2.48	15.15	88	0	
	1255	≈ Constant	275	5.40	0.91	2.75	2.48	15.09	83	0	
*	1257	Collected Sample	~~275~~								

SIGNATURE(S): Carol M. Fuller

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calv. Southern Area
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-144I-20100629
Sample Location: SA-PZ-144I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-29-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1316								ORP
Method: Low Flow	clear	6.14	0.205	13.93	11.2	0.47	0.0	-7

PURGE DATA:

Date: 6-29-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow	See low Flow purge sheet							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 52.07								
Static Water Level (WL): 9.04								
One Casing Volume(gal/L):								
Start Purge (hrs): 1212								
End Purge (hrs): 1316								
Total Purge Time (min): 64								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40mL glass vial	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calv, Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-144I
DATE: 6-29-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1212	9.04									
1214	9.04	300	6.46	0.196	2312	8.18	15.36	-38	0.0	
1219	9.04	300	6.60	0.343	1269	10.01	16.00	-37	0.0	
1224	9.04	300	6.07	0.474	563	5.75	14.41	-8	0.0	
1229	9.04	300	6.05	0.440	193	5.26	14.33	-6	0.0	
1234	9.04	300	6.05	0.390	47.7	4.50	14.39	-4	0.0	move horiba to shade
1239	9.04	300	6.05	0.354	33.6	3.84	14.45	-2	0.0	2 gal purged
1244	9.04	300	6.03	0.306	34.7	0.85	14.14	-2	0.0	
1249	9.04	300	6.04	0.272	27.5	0.83	14.30	-2	0.0	
1254	9.04	300	6.06	0.251	26.6	0.78	14.15	-3	0.0	3 gal
1259	9.04	300	6.08	0.235	25.3	0.67	13.92	-4	0.0	
1304	9.04	300	6.09	0.225	19.2	0.58	13.95	-5	0.0	
1309	9.04	300	6.11	0.215	13.9	0.53	13.98	-5	0.0	4 gal
1314	9.04	300	6.14	0.205	11.2	0.47	13.98	-7	0.0	
1316	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-1455-20100630
Sample Location: SA-PZ-1455
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1210	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	4.73	0.089	12.85	0.00	6.24	0.0	221

PURGE DATA:

Date: 6-30-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow	see low flow purge sheet							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 17.79								
Static Water Level (WL): 8.47								
One Casing Volume(gal/L):								
Start Purge (hrs): 11.21								
End Purge (hrs): 1210								
Total Purge Time (min): 49								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL vials	yes
Samples split w/ SCDHS			
VOCs	HCl	2 40mL vials	yes
Total Metals	HNO_3	1 500mL poly	yes
Inorganics	—	1 500mL poly	yes

OBSERVATIONS / NOTES:

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-145S
DATE: 6-30-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1121	8.47									
1124	9.27	300	5.02	0.051	62.2	9.40	13.13	137	0.0	
1129	9.29	300	4.81	0.065	55.9	8.30	13.14	171	0.0	
1134	9.30	300	4.78	0.081	18.2	7.84	12.92	183	0.0	1 gal
1139	9.30	300	4.77	0.080	8.65	7.43	12.93	192	0.0	
1144	9.30	300	4.75	0.082	3.90	7.19	12.87	198	0.0	
1149	9.30	300	4.75	0.083	1.68	6.98	12.87	204	0.0	2 gal
1158	9.30	300	4.73	0.085	0.00	6.66	12.87	213	0.0	
1203	9.30	300	4.73	0.085	0.00	6.39	12.87	218	0.0	3 gal
1208	9.30	300	4.73	0.089	0.00	6.24	12.85	221	0.0	
1210	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Calverton - Southern Area
Project No.: 112G-01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-145I-20100630
Sample Location: SA-PZ-145I
Sampled By: CF
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/30/10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1102	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP (mV)
Method: Low-Flow	Clear	5.71	0.189	11.99	36.5	0.43	0	30

PURGE DATA:

Date: 6/30/10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low-Flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 1" PVC pipe								
Total Well Depth (TD): 37.72'								
Static Water Level (WL): 9.49'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1020								
End Purge (hrs): 1102								
Total Purge Time (min): 42								
Total Vol. Purged (gal/L): 5								

See Low-Flow Purge Data Sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40mL glass vials	3X
Split samples w/ SCDHS			
VOCs	HCl	2 40mL vial	yes
Total Metals	HNO_3	1 500mL poly	yes
Inorganics	—	1 500mL poly	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
No	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP - Calverton - Southern Area
PROJECT NUMBER: 1120-01655
WELL ID.: SA-PZ-145I
DATE: 6/30/10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
10 20	9.49	310	5.62	0.114	Out of Range	0.82	12.10	23	0	Very turbid
10 25	9.51	310	5.54	0.198	1,209	0.69	12.01	27	0	
10 30	9.53	310	5.45	0.224	245	0.71	12.01	33	0	
10 35	≈ Constant	310	5.42	0.235	105.1	0.66	11.94	37	0	
10 40	≈ Constant	310	5.41	0.239	79.5	0.59	12.09	39	0	
10 45	≈ Constant	310	5.43	0.238	52.9	0.54	12.03	39	0	
10 50	≈ Constant	310	5.47	0.225	47.9	0.51	12.10	38	0	
10 55	≈ Constant	310	5.61	0.204	40.4	0.46	11.98	33	0	
11 00	≈ Constant	310	5.71	0.184	36.5	0.43	11.99	30	0	
11 02	Collected Sample									

SIGNATURE(S):

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calv
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-145D-20100630
Sample Location: SA-PZ-145D
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6-30-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1058	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.71	0.147	12.74	11.3	1.57	0.0	-257

PURGE DATA:

Date: 6-30-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow	See	low	flow	purge	sheet			
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 57.80								
Static Water Level (WL): 8.41								
One Casing Volume(gal/L):								
Start Purge (hrs): 1009								
End Purge (hrs): 1058								
Total Purge Time (min): 49								
Total Vol. Purged (gal/L): 3.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 - 40mL vial	yes
Samples split w SCDHS			
VOCs	HCl	2 x 40mL vial	yes
Total Metals	HNO_3	1 500mL poly	yes
Inorganics (Nitrate, etc)	—	1 500mL poly	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.: 1200
SA-Dup-02-20100630

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calv. **WELL ID.:** SA-PZ-145D
PROJECT NUMBER: 112G01655 **DATE:** 6-30-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1009	8.41									
1011	8.44	300	6.64	0.240	61.1	5.51	13.46	-407	0.0	
1016	8.43	300	7.03	0.233	46.0	2.99	12.91	-402	0.0	
1021	8.43	300	6.91	0.188	20.6	2.24	12.77	-337	0.0	1 gal
1026	8.43	300	6.87	0.175	20.6	2.36	12.80	-315	0.0	
1031	8.43	300	6.89	0.163	18.9	2.41	12.78	-291	0.0	
1036	8.43	300	6.81	0.161	13.1	2.02	12.74	-290	0.0	
1041	8.43	300	6.85	0.156	13.4	1.73	12.80	-276	0.0	2 gal
1046	8.43	300	6.77	0.153	11.7	1.67	12.68	-270	0.0	
1051	8.43	300	6.73	0.149	12.9	1.59	12.74	-263	0.0	
1056	8.43	300	6.71	0.147	11.3	1.57	12.74	-257	0.0	3 gal
1058	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: ET-MW01S-20100916
Sample Location: Engine Test House
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1030	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow-peristaltic	Clear	6.39	0.207	17.7	0.0	1.24	0.0	-6

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 10.52								
One Casing Volume(gal/L):								
Start Purge (hrs): 1040 AB 0940								
End Purge (hrs): 1030								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	YES
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle If Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: ET-MW01S
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0935	10.52	—	—	—	—	—	—	—	—	Initial
0940	10.52	350	6.55	0.301	21.2	1.27	17.1	-30	0.0	clear
0945	10.52	350	6.49	0.278	3.7	0.61	17.2	-33	0.0	clear
0950	10.52	350	6.44	0.258	1.4	0.49	17.3	-28	0.0	clear
0955	10.52	350	6.39	0.228	0.9	0.51	17.4	-17	0.0	clear
1000	10.52	350	6.37	0.219	0.3	0.68	17.4	-14	0.0	clear
1005	10.52	350	6.38	0.211	0.0	0.77	17.6	-10	0.0	clear
1010	10.52	350	6.39	0.209	0.0	0.91	17.7	-7	0.0	clear
1015	10.52	350	6.39	0.206	0.0	1.06	17.7	-5	0.0	clear
1020	10.52	350	6.39	0.207	0.0	1.12	17.7	-6	0.0	clear
1025	10.52	350	6.39	0.208	0.0	1.19	17.7	-6	0.0	clear
1030	10.52	350	6.39	0.207	0.0	1.24	17.7	-6	0.0	clear - collect sample

SIGNATURE(S): _____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: ET-MW02$-20100916
Sample Location: Engine Test House
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0925	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	Clear	6.49	0.250	18.6	0.0	1.19	0.0	137

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 10.04								
One Casing Volume(gal/L):								
Start Purge (hrs): 0835								
End Purge (hrs): 0925								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: ET-MW02S
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0833	10.04	—	—	—	—	—	—	—	—	Initial
0835	10.04	350	6.00	0.256	18.4	1.12	17.0	160	0.0	clear
0840	10.04	350	6.24	0.278	10.5	0.61	17.9	147	0.0	clear
0845	10.04	350	6.42	0.276	8.0	0.43	18.5	138	0.0	clear
0850	10.04	350	6.44	0.274	0.7	0.47	18.6	138	0.0	clear
0855	10.04	350	6.46	0.271	0.0	0.54	18.6	134	0.0	clear
0900	10.04	350	6.49	0.267	0.0	0.70	18.6	133	0.0	clear
0905	10.04	350	6.49	0.259	0.0	0.92	18.6	135	0.0	clear
0910	10.04	350	6.49	0.253	0.0	1.01	18.6	135	0.0	clear
0915	10.04	350	6.48	0.250	0.0	1.09	18.6	136	0.0	clear
0920	10.04	350	6.48	0.250	0.0	1.14	18.6	136	0.0	clear
0925	10.04	350	6.49	0.250	0.0	1.19	18.6	137	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: ET-MW036-20100916
Sample Location: Engine Test House
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10 / Time: 0825	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: Low Flow - peristaltic	clear	5.34	0.055	15.1	0.0	1.84	0.0	229

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 10.86								
One Casing Volume(gal/L):								
Start Purge (hrs): 0735								
End Purge (hrs): 0825								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: ET-MW03F
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0728	10.86	—	—	—	—	—	—	—	—	Initial
0735	10.86	395	~~6.75~~	0.075	28.3	1.86	14.5	205	0.0	clear
0740	10.86	350	5.09	0.067	26.2	1.33	14.8	208	0.0	clear
0745	10.86	350	5.16	0.060	22.0	1.40	14.9	222	0.0	clear
0750	10.86	350	5.18	0.059	8.7	1.48	15.0	222	0.0	clear
0755	10.86	350	5.25	0.057	3.3	1.82	15.0	221	0.0	clear
0800	10.86	350	5.28	0.057	1.4	1.78	15.0	224	0.0	clear
0805	10.86	350	5.31	0.056	0.7	1.83	15.0	226	0.0	clear
0810	10.86	350	5.32	0.055	0.0	1.88	15.0	227	0.0	clear
0815	10.86	350	5.34	0.055	0.0	1.82	15.0	228	0.0	clear
0820	10.86	350	5.34	0.055	0.0	1.87	15.1	228	0.0	clear
0825	10.86	350	5.34	0.055	0.0	1.84	15.1	229	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW-01S-20100915
Sample Location: FC-MW-01S
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-15-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 0938								
Method: Low Flow	clear	6.33	0.150	19.86	1.09	0.00	0.0	15

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-15-10								
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 15								
Static Water Level (WL): 8.55								
One Casing Volume(gal/L):								
Start Purge (hrs): 0854								
End Purge (hrs): 0938								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site GA
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW-01S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0854	8.55									
0856	8.55	350	6.24	0.172	172	0.88	19.54	64	0.0	slight orange tint w/ fibrous suspended particulate
0901	8.55	350	6.35	0.166	42.1	0.96	19.61	44	0.0	
0906	8.55	300	6.37	0.163	23.3	0.33	19.65	31	0.0	
0911	8.55	300	6.37	0.162	6.53	0.25	19.67	24	0.0	
0916	8.55	300	6.38	0.160	4.19	0.17	19.68	20	0.0	
0921	8.55	300	6.35	0.158	1.93	0.09	19.72	18	0.0	
0926	8.55	300	6.34	0.155	1.65	0.03	19.79	16	0.0	
0931	8.55	300	6.34	0.153	1.15	0.00	19.81	15	0.0	
0936	8.55	300	6.33	0.150	1.09	0.00	19.86	15	0.0	
0938	Collect sample									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW-01I-20100915
Sample Location: FC-MW-01I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0849	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow Grundfos	clear	5.75	0.080	18.11	7.41	7.34	0.0	266

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 58								
Static Water Level (WL): 8.37								
One Casing Volume(gal/L):								
Start Purge (hrs): 0805								
End Purge (hrs): 0849								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 6A
PROJECT NUMBER: 117601655
WELL ID.: FC-MW-01I
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0805	8.37	300								
0807	8.38	300	5.92	0.084	44.8	9.55	18.41	270	0.0	
0812	8.38	300	5.91	0.083	27.7	9.01	18.43	254	0.0	
0817	8.38	300	5.83	0.080	22.2	8.65	18.43	254	0.0	
0822	8.38	300	5.79	0.078	16.5	8.31	18.39	255	0.0	
0827	8.38	300	5.76	0.077	16.8	8.18	18.00	259	0.0	
0832	8.38	300	5.75	0.078	17.4	7.89	18.26	262	0.0	
0837	8.38	300	5.74	0.078	8.64	7.70	18.15	264	0.0	
0842	8.38	300	5.75	0.079	6.43	7.50	18.11	264	0.0	
0847	8.38	300	5.75	0.080	7.41	7.34	18.11	266	0.0	
0849	Collect Sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW02$-20100915
Sample Location: Fuel Cal Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1115	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	Clear	6.26	0.257	20.1	1.25	0.29	0.0	-261

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD):								
Static Water Level (WL): 7.81								
One Casing Volume(gal/L):								
Start Purge (hrs): 1025								
End Purge (hrs): 1115								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	FC-DUP02-20100915

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW02S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1020	7.81	—	—	—	—	—	—	—	—	Initial
1025	7.81	375	6.40	0.555	45.3	1.49	19.5	-156	0.0	Tan Tint
1030	7.81	375	6.42	0.364	102.7	0.57	20.0	-189	0.0	Tan
1035	7.81	375	6.37	0.305	24.3	0.35	20.1	-198	0.0	clear
1040	7.81	375	6.35	0.285	19.0	0.33	20.0	-207	0.0	clear
1045	7.81	375	6.35	0.278	13.1	0.32	20.1	-220	0.0	clear
1050	7.81	375	6.34	0.270	9.35	0.32	20.1	-240	0.0	clear
1055	7.81	375	6.32	0.264	3.40	0.31	20.1	-252	0.0	clear
1100	7.81	375	6.30	0.259	1.00	0.30	20.1	-257	0.0	clear
1105	7.81	375	6.29	0.257	1.40	0.30	20.1	-259	0.0	clear (MS)
1110	7.81	375	6.27	0.258	1.30	0.29	20.1	-260	0.0	clear - ~~collect sample~~
1115	7.81	375	6.26	0.257	1.25	0.29	20.1	-261	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: _____
[] QA Sample Type: _____

Sample ID No.: FC-MW02I-20100915
Sample Location: Fuel Cal Area
Sampled By: VAS
C.O.C. No.: _____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10 / Time: 1240	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: Low Flow - Redi-Flow	clear	5.43	0.097	16.4	2.9	3.89	0.0	124

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Redi-Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD):								
Static Water Level (WL): 8.78'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1145								
End Purge (hrs): 1240								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains or elevated PID readings observed
- Pump set in screen interval of well

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: DWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW02I
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1135	8.78	—	—	—	—	—	—	—	—	Initial
1145	8.78	375	6.68	0.091	72.4	5.90	17.0	30	0.0	Brown Tint
1150	8.78	375	5.95	0.096	83.2	4.21	16.8	72	0.0	Brown Tint
1155	8.78	375	5.68	0.095	64.2	3.93	16.5	84	0.0	slight Tan Tint
1200	8.78	375	5.59	0.096	59.4	3.79	16.5	92	0.0	"
1205	8.78	375	5.52	0.097	54.6	3.64	16.5	100	0.0	"
1210	8.78	375	5.49	0.097	32.5	3.63	16.5	106	0.0	clear
1215	8.78	375	5.48	0.097	20.1	3.69	16.5	109	0.0	clear
1220	8.78	375	5.47	0.097	16.2	3.74	16.4	111	0.0	clear
1225	8.78	375	5.46	0.097	9.4	3.79	16.4	115	0.0	clear
1230	8.78	375	5.44	0.097	3.0	3.82	16.4	118	0.0	clear
1235	8.78	375	5.44	0.097	3.2	3.86	16.4	121	0.0	clear
1240	8.78	375	5.43	0.097	2.9	3.89	16.4	124	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW03S-20100915
Sample Location: Fuel Cal Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1445	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	clear	6.10	0.288	20.4	0.8	0.36	0.0	-196

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD):								
Static Water Level (WL): 7.42								
One Casing Volume(gal/L):								
Start Purge (hrs): 1400								
End Purge (hrs): 1445								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 4.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW03S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1355	7.42	—	—	—	—	—	—	—	—	Initial
1400	7.42	350	5.99	0.335	30.1	1.89	20.2	-158	0.0	Slight Tint Tan
1405	7.42	350	6.10	0.296	15.3	0.46	20.2	-179	0.0	clear
1410	7.42	350	6.09	0.298	10.4	0.41	20.3	-186	0.0	clear
1415	7.42	350	6.10	0.300	8.7	0.36	20.3	-186	0.0	clear
1420	7.42	350	6.10	0.298	6.3	0.38	20.3	-191	0.0	clear
1425	7.42	350	6.10	0.294	2.7	0.37	20.3	-192	0.0	clear
1430	7.42	350	6.10	0.292	1.5	0.37	20.4	-192	0.0	clear
1435	7.42	350	6.10	0.290	0.8	0.37	20.4	-194	0.0	clear
1440	7.42	350	6.10	0.289	0.7	0.36	20.4	-195	0.0	clear
1445	7.42	350	6.10	0.288	0.8	0.36	20.4	-196	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW04S-20100915
Sample Location: Fuel Cell Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0845	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Redi-Flow	Clear	5.49	0.041	16.8	15.5	1.95	0.0	140

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Redi-Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 13'								
Static Water Level (WL): 7.16'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0755								
End Purge (hrs): 0845								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- No odors or elevated PID readings observed
- Water was orange-stained at beginning of purge.
- pump set in screen interval of well.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW04S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0750	7.16	–	–	–	–	–	–	–	–	Initial
0755	7.16'	350	5.44	0.050	285	2.69	16.5	167	0.0	orange Tint
0800	7.16'	350	5.42	0.047	33.7	2.09	16.6	169	0.0	slight orange Tint
0805	7.16'	350	5.45	0.044	30.2	2.00	16.6	167	0.0	"
0810	7.16'	350	5.47	0.044	28.6	2.01	16.6	165	0.0	clear
0815	7.16'	350	5.48	0.043	22.4	2.05	16.7	160	0.0	clear
0820	7.16'	350	5.48	0.042	22.0	2.08	16.7	154	0.0	clear
0825	7.16	350	5.48	0.041	21.7	2.10	16.8	152	0.0	clear
0830	7.16	350	5.48	0.041	18.4	2.11	16.8	147	0.0	clear
0835	7.16	350	5.48	0.040	16.3	2.02	16.8	142	0.0	clear
0840	7.16	350	5.49	0.041	15.9	1.98	16.8	141	0.0	clear
0845	7.16	350	5.49	0.041	15.5	1.95	16.8	140	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW04I-20100915
Sample Location: Fuel Cal Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0945	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Redi-Flow	Clear	5.50	0.064	15.0	3.8	6.67	0.0	214

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Redi-Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 50'								
Static Water Level (WL): 7.02								
One Casing Volume(gal/L):								
Start Purge (hrs): 0900								
End Purge (hrs): 0945								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

- No stains, odors, or elevated PID readings observed
- Pump set in screen interval of well

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	–

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW04I
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
	7.02	–	–	–	–	–	–	–	–	Initial
0900	7.02	375	5.53	0.059	30.3	7.45	15.1	204	0.0	slight Tint Tan
0905	7.02	375	5.50	0.059	18.6	7.32	14.6	207	0.0	clear
0910	7.02	375	5.48	0.059	11.2	7.27	14.6	210	0.0	clear
0915	7.02	375	5.49	0.060	9.8	7.21	14.6	212	0.0	clear
0920	7.02	375	5.49	0.060	10.2	7.12	14.7	212	0.0	clear
0925	7.02	375	5.48	0.061	8.4	7.00	14.8	212	0.0	clear
0930	7.02	375	5.49	0.062	8.2	6.93	14.9	213	0.0	clear
0935	7.02	375	5.50	0.062	8.0	6.84	15.0	214	0.0	clear
0940	7.02	375	5.51	0.064	8.5	6.72	15.0	215	0.0	clear
0945	7.02	375	5.50	0.064	8.8	6.67	15.0	214	0.0	clear - collect sample

SIGNATURE(S): _____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: ____
[] QA Sample Type: ____

Sample ID No.: FC-MW-05$-20100915
Sample Location: FC-MW-05$
Sampled By: JD
C.O.C. No.: ____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10 / Time: 1617	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow	clear	5.37	0.087	17.82	4.19	0.00	0.0	ORP 147

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 16								
Static Water Level (WL): 10.33								
One Casing Volume(gal/L):								
Start Purge (hrs): 1534								
End Purge (hrs): 1617								
Total Purge Time (min): 43								
Total Vol. Purged (gal/L): 3.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 6A
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW-05$
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1534	10.33									
1535	10.33	320	5.46	0.121	94.1	1.61	18.25	150	0.0	tan Fluffy particulate (algae)
1540	10.33	320	5.34	0.122	101.4	2.67	17.62	103	0.0	less " "
1545	10.33	300	5.35	0.119	77.7	0.00	17.63	101	0.0	
1550	10.33	300	5.42	0.108	22.1	0.00	17.72	109	0.0	
1555	10.33	300	5.40	0.102	10.67	0.00	17.75	121	0.0	
1600	10.33	300	5.37	0.099	6.69	0.00	17.74	129	0.0	
1605	10.33	300	5.36	0.089	6.80	0.00	17.82	137	0.0	
1610	10.33	300	5.36	0.088	4.54	0.00	17.84	143	0.0	
1615	10.33	300	5.37	0.087	4.19	0.00	17.82	147	0.0	
1617	Collect Samples									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW-05I-20100915
Sample Location: FC-MW-05I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-15-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 1526								
Method: Low Flow	clear	6.08	0.117	16.49	2.85	0.25	0.0	173

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-15-10								
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 58								
Static Water Level (WL): 9.65								
One Casing Volume(gal/L):								
Start Purge (hrs): 1442								
End Purge (hrs): 1526								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW-05I
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1442	9.65									
1444	9.66	400	6.61	0.122	39.3	3.16	16.10	134	0.0	
1449	9.67	400	6.44	0.120	83.9	1.62	16.25	142	0.0	
1454	9.67	350	6.26	0.120	68.2	0.98	16.40	152	0.0	
1459	9.67	325	6.21	0.120	13.1	0.69	16.59	156	0.0	
1504	9.67	300	6.18	0.119	5.96	0.52	16.55	161	0.0	
1509	9.67	300	6.16	0.119	6.03	0.48	16.60	164	0.0	
1514	9.67	300	6.14	0.118	3.13	0.36	16.55	168	0.0	
1519	9.67	300	6.09	0.117	2.93	0.28	16.53	171	0.0	
1524	9.67	300	6.08	0.117	2.85	0.25	16.49	173	0.0	
1526	Collect sample									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW06S-20100915
Sample Location: Fuel Cell Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1555	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Peristaltic	clear	6.51	0.236	16.6	0.3	6.52	0.0	106

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 19'								
Static Water Level (WL): 12.35								
One Casing Volume(gal/L):								
Start Purge (hrs): 1505								
End Purge (hrs): 1555								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW06S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1500	12.35	—	—	—	—	—	—	—	—	Initial
1505	12.35	350	6.41	0.272	44.8	5.22	17.8	44	0.0	slight Tint Tan
1510	12.35	350	6.47	0.248	35.3	6.19	17.2	69	0.0	"
1515	12.35	350	6.43	0.241	14.7	6.80	16.9	83	0.0	Clear
1520	12.35	350	6.43	0.240	11.3	6.92	16.7	91	0.0	Clear
1525	12.35	350	6.42	0.239	8.7	6.98	16.5	98	0.0	Clear
1530	12.35	350	6.41	0.239	5.1	7.02	16.5	105	0.0	Clear
1535	12.35	350	6.42	0.238	2.0	6.90	16.6	108	0.0	Clear
1540	12.35	350	6.44	0.238	0.7	6.83	16.5	107	0.0	Clear
1545	12.35	350	6.49	0.237	0.4	6.64	16.6	106	0.0	Clear
1550	12.35	350	6.50	0.237	0.3	6.57	16.6	106	0.0	Clear
1555	12.35	350	6.51	0.236	0.3	6.52	16.6	106	0.0	Clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW-07S-20100915
Sample Location: FC-MW-07S
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1255	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.53	0.068	20.30	2.41	0.0	0.0	-69

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 15								
Static Water Level (WL): 10.25								
One Casing Volume(gal/L):								
Start Purge (hrs): 1211								
End Purge (hrs): 1255								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	YES
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 6A
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW-07S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1211	10.25									
1213	10.25	300	6.32	0.072	7.62	1.22	20.05	-39	0.0	
1218	10.25	300	6.46	0.067	2.75	0.00	20.22	-49	0.0	
1223	10.25	300	6.48	0.065	5.34	0.00	20.26	-53	0.0	
1228	10.25	300	6.52	0.064	3.67	0.00	20.30	-59	0.0	
1233	10.25	300	6.52	0.066	2.31	0.00	20.28	-62	0.0	
1238	10.25	300	6.53	0.067	2.66	0.00	20.27	-64	0.0	
1243	10.25	300	6.54	0.067	2.19	0.00	20.29	-66	0.0	
1248	10.25	300	6.52	0.068	3.92	0.00	20.30	-68	0.0	
1253	10.25	300	6.53	0.068	2.41	0.00	20.30	-69	0.0	
1255	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: _____
[] QA Sample Type: _____

Sample ID No.: FC-MW-07I-20100915
Sample Location: FC-MW-07I
Sampled By: JB
C.O.C. No.: _____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1201	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.87	0.118	18.22	22.3	2.16	0.0	190

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Per Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): –								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 58								
Static Water Level (WL): 10.18								
One Casing Volume(gal/L):								
Start Purge (hrs): 1118								
End Purge (hrs): 1201								
Total Purge Time (min): 43								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	–

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 6A
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW-07I
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1118	10.18									
1120	10.19	320	6.25	0.124	74.3	6.72	18.33	148	0.0	tan tint
1126	10.19	320	6.14	0.123	150	2.77	18.59	154	0.0	" "
1131	10.19	320	6.01	0.117	182	2.90	18.25	165	0.0	" "
1136	10.19	320	5.91	0.115	184	2.82	18.17	173	0.0	" "
1141	10.19	320	5.86	0.117	78.8	2.52	18.17	180	0.0	
1146	10.19	300	5.89	0.118	43.4	2.85	18.28	183	0.0	
1151	10.19	300	5.88	0.119	39.1	2.16	18.56	184	0.0	
1158	10.19	300	5.87	0.118	22.3	2.16	18.22	190	0.0	
1201	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW-08$-20100915
Sample Location: FC-MW-08$
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-15-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1055	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.82	0.076	20.06	2.13	0.0	0.0	27

PURGE DATA:

Date: 9-15-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 12								
Static Water Level (WL): 5.81								
One Casing Volume(gal/L):								
Start Purge (hrs): 1014								
End Purge (hrs): 1055								
Total Purge Time (min): 41								
Total Vol. Purged (gal/L): 3.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FC-MW-08S
DATE: 9-15-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1014	5.81									
1016	5.83	300	6.27	0.080	1.70	1.59	19.83	41	0.0	
1021	5.83	300	6.04	0.079	1.85	0.64	19.71	34	0.0	
1026	5.84	300	5.91	0.078	1.23	0.13	19.57	31	0.0	
1031	5.84	300	5.83	0.078	1.04	0.00	19.73	30	0.0	
1036	5.84	300	5.84	0.077	0.90	0.00	19.85	28	0.0	
1043	5.84	300	5.81	0.076	0.73	0.00	20.01	28	0.0	
1048	5.84	300	5.80	0.076	0.41	0.00	20.05	28	0.0	
1053	5.84	275	5.82	0.076	2.18	0.00	20.06	27	0.0	
1055	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-01S-20100914
Sample Location: FT-MW-01S
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10 / Time: 1724	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow								

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD):								
Static Water Level (WL): 22.27								
One Casing Volume(gal/L):								
Start Purge (hrs): 1632								
End Purge (hrs): 1724								
Total Purge Time (min): 52								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW01S
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1632	22.27									
1634	22.28	300	4.28	0.239	0.10	11.21	14.64	346	0.0	
1639	22.28	300	4.10	0.231	0.00	9.39	15.27	388	0.0	
1647	22.28	300	4.10	0.227	0.00	9.55	15.12	415	0.0	
1652	22.28	300	4.12	0.226	0.00	11.07	15.29	419	0.0	
1657	22.28	300	4.13	0.226	0.00	11.14	15.14	424	0.0	
1702	22.28	300	4.14	0.225	0.00	10.93	15.18	425	0.0	
1707	22.28	300	4.15	0.223	0.00	10.83	15.03	427	0.0	
1712	22.30	300	4.16	0.221	0.00	10.25	15.76	429	0.0	
1717	22.30	300	4.17	0.219	0.00	10.93	15.23	430	0.0	
1722	22.30	300	4.17	0.216		10.65	15.38	431	0.0	
1724	Collect Sample									

SIGNATURE(S): Jack Kibbe

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-01I-20100914
Sample Location: FT-MW-01I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-14-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 1620								
Method: Low Flow	~~5.87~~	~~6.043~~	0.043	15.10	0.0	10.86	0.0	293

5.87

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-14-10								
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): –								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 78								
Static Water Level (WL): 22.03								
One Casing Volume(gal/L):								
Start Purge (hrs): 1526								
End Purge (hrs): 1620								
Total Purge Time (min): 54								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	YES
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD –

Duplicate ID No.: –

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-01I
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1526	22.03									
1528	22.03	300	6.46	0.041	0.08	14.38	16.06	265	0.0	
1533	22.03	300	6.34	0.041	0.06	11.75	16.32	260	0.0	
1539	22.03	300	6.29	0.041	0.00	11.03	16.13	257	0.0	
1544	22.03	300	6.14	0.040	0.00	10.38	18.54	260	0.0	
1554	22.03	300	6.12	0.040	0.00	10.99	17.32	266	0.0	
1559	22.03	300	6.15	0.040	0.21	11.49	16.06	270	0.0	
1604	22.03	300	6.11	0.040	0.00	10.95	15.64	273	0.0	
1609	22.03	300	5.94	0.043	0.17	10.64	15.62	285	0.0	
1614	22.03	300	5.89	0.044	0.31	11.02	15.14	291	0.0	
1618	22.03	300	5.87	0.043	0.00	10.86	15.10	293	0.0	
1620	Collect Sample									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-02S-20100914
Sample Location: FTA
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1540	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	clear	6.42	0.563	15.7	0.29	0.24	0.0	-385

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 8.6								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 20.5'								
Static Water Level (WL): 14.51'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1440								
End Purge (hrs): 1540								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Note → Free product noted in well (~ 0.06 inches thick)
Fuel like odor observed in well. PID readings in well range from 2.4 ppm to 8.6 ppm.
Slight oily sheen observed on purge water with fuel odor

Circle if Applicable:

MS/MSD	Duplicate ID No.: (1500)
-	FT-DUP01-20100914

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-02S
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1436	14.51	—	—	—	—	—	—	—	—	Initial
1440	14.51	350	6.70	0.940	75.0	1.38	15.8	-145	0.1	Black Tint
1445	14.51	350	7.40	0.780	12.16	0.56	15.8	-308	0.0	clear
1450	14.51	350	6.62	0.719	3.07	0.31	15.7	-345	0.0	clear
1455	14.51	350	6.54	0.668	0.86	0.27	15.7	-354	0.0	clear
1500	14.51	350	6.50	0.633	0.51	0.28	15.7	-362	0.0	clear
1505	14.51	350	6.47	0.615	0.45	0.25	15.8	-367	0.0	clear
1510	14.51	350	6.46	0.604	0.42	0.25	15.7	-372	0.0	clear
1515	14.51	350	6.45	0.601	0.44	0.25	15.7	-376	0.0	clear
1520	14.51	350	6.45	0.585	0.53	0.24	15.7	-379	0.0	clear
1525	14.51	350	6.44	0.573	0.35	0.24	15.8	-381	0.0	clear
1530	14.51	350	6.43	0.569	0.30	0.24	15.7	-383	0.0	clear
1535	14.51	350	6.42	0.562	0.31	0.24	15.8	-384	0.0	clear
1540	14.51	350	6.42	0.563	0.29	0.24	15.7	-385	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-02I-20100914
Sample Location: FTA
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10 / Time: 1425	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow - peristaltic								

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 80'								
Static Water Level (WL): 14.35'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1325								
End Purge (hrs): 1425								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

- No stains or elevated PID readings observed
- Very slight "Fuel-like odor observed from inside well

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-02I
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1321	14.35	—	—	—	—	—	—	—	—	Initial
1325	14.35	375	5.43	0.090	17.31	8.03	16.0	364	0.0	clear
1330	14.35	375	5.58	0.068	8.66	7.18	13.8	362	0.0	clear
1335	14.35	375	5.52	0.046	2.72	7.09	13.3	365	0.0	clear
1340	14.35	375	5.50	0.040	1.46	7.16	13.4	366	0.0	clear
1345	14.35	375	5.49	0.040	1.10	7.09	13.4	367	0.0	clear
1350	14.35	375	5.50	0.040	0.89	7.07	13.4	368	0.0	clear
1355	14.35	375	5.51	0.040	0.45	7.01	13.4	366	0.0	clear
1400	14.35	375	5.51	0.040	0.37	6.98	13.3	367	0.0	clear
1405	14.35	375	5.52	0.040	0.35	6.95	13.2	366	0.0	clear
1410	14.35	375	5.52	0.040	0.33	6.97	13.3	365	0.0	clear
1415	14.35	375	5.53	0.040	0.30	6.98	13.3	365	0.0	clear
1420	14.35	375	5.54	0.040	0.30	6.94	13.3	363	0.0	clear
1425	14.35	375	5.54	0.040	0.25	6.92	13.3	362	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-03-20100914
Sample Location: FT-MW-03
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1459								ORP
Method: Low Flow	clear	6.21	0.062	15.11	0.34	10.05	0.0	280

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL): 25.02								
One Casing Volume(gal/L):								
Start Purge (hrs): 1415								
End Purge (hrs): 1459								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD ~ | Duplicate ID No.: ~

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 2
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-03
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1415	25.02									Trouble getting Flow
1422	25.02	300	6.28	0.068	10.94	16.60	14.95	292	0.0	F sand in tubing
1427	25.02	300	6.30	0.068	5.81	13.00	15.31	289	0.0	
1432	25.02	300	6.28	0.067	5.24	12.79	15.29	288	0.0	
1437	25.02	300	6.28	0.066	4.30	11.68	15.39	280	0.0	
1442	25.02	300	6.21	0.065	2.94	11.77	14.99	281	0.0	
1447	25.02	300	6.19	0.062	1.36	11.92	15.02	280	0.0	
1452	25.02	300	6.17	0.061	0.61	11.95	15.02	281	0.0	
1457	25.02	300	6.21	0.062	0.34	10.05	15.11	280	0.0	
1459	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-04-20100914
Sample Location: FTA
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10 / Time: 1305	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow - peristaltic	clear	4.01	0.149	12.6	0.21	6.12	0.0	427

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 27'								
Static Water Level (WL): 20.16								
One Casing Volume(gal/L):								
Start Purge (hrs): 1210								
End Purge (hrs): 1305								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 4.85								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-04
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1200	20.16	—	—	—	—	—	—	—	—	Initial
1210	20.16	350	4.20	0.189	8.85	6.20	12.7	425	0.0	clear
1215	20.16	350	4.13	0.181	4.70	6.23	12.5	424	0.0	clear
1220	20.16	350	4.12	0.171	3.16	6.30	12.5	425	0.0	clear
1225	20.16	350	4.11	0.173	2.80	6.37	12.5	424	0.0	clear
1230	20.16	350	4.09	0.169	2.22	6.25	12.6	426	0.0	clear
1235	20.16	350	4.05	0.167	1.05	6.20	12.6	427	0.0	clear
1240	20.16	350	4.04	0.167	0.75	6.14	12.6	427	0.0	clear
1245	20.16	350	4.02	0.158	0.67	6.12	12.6	428	0.0	clear
1250	20.16	350	4.02	0.151	0.40	6.15	12.6	427	0.0	clear
1255	20.16	350	4.02	0.150	0.30	6.13	12.6	428	0.0	clear
1300	20.16	350	4.01	0.149	0.22	6.11	12.6	428	0.0	clear
1305	20.16	350	4.01	0.149	0.21	6.12	12.6	427	0.0	clear - collect sample

SIGNATURE(S): _____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-05-20100914
Sample Location: FTA
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10 / Time: 0910	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: Low Flow	clear	4.72	0.047	14.2	14.1	0.85	0.0	319

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 17.5'								
Static Water Level (WL): 11.40'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0820								
End Purge (hrs): 0910								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
-	-

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: FT-MW-05S
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0815	11.40	–	–	–	–	–	–	–	–	Initial
0820	11.40	360	4.90	0.065	108.0	1.78	14.6	336	0.0	slight Tint - Tan
0825	11.40	360	4.65	0.060	41.2	1.63	14.3	339	0.0	clear
0830	11.40	360	4.60	0.059	37.3	1.36	14.1	343	0.0	clear
0835	11.40	360	4.56	0.055	36.4	1.32	14.1	345	0.0	clear
0840	11.40	360	4.58	0.052	34.6	1.20	14.1	342	0.0	clear
0845	11.40	360	4.62	0.050	33.9	0.95	14.1	337	0.0	clear
0850	11.40	360	4.70	0.049	25.1	0.90	14.2	329	0.0	clear
0855	11.40	360	4.72	0.049	19.0	0.83	14.2	326	0.0	clear
0900	11.40	360	4.72	0.048	16.8	0.86	14.2	324	0.0	clear
0905	11.40	360	4.72	0.048	15.0	0.84	14.2	320	0.0	clear
0910	11.40	360	4.72	0.047	14.1	0.85	14.2	319	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-05T-20100914
Sample Location: FTA
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10 / Time: 1015	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow - peristaltic	clear	5.76	0.043	13.5	1.46	7.93	0.0	337

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 58'								
Static Water Level (WL): 11.81								
One Casing Volume(gal/L):								
Start Purge (hrs): 0925								
End Purge (hrs): 1015								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-05I
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0920	11.81	—	—	—	—	—	—	—	—	Initial
0925	11.81	350	5.58	0.057	9.85	8.99	14.2	317	0.0	clear
0930	11.81	350	5.76	0.053	3.41	8.62	13.9	318	0.0	clear
0935	11.81	350	5.78	0.050	1.17	8.43	13.2	324	0.0	clear
0940	11.81	350	5.79	0.048	1.10	8.50	13.3	328	0.0	clear
0945	11.81	350	5.79	0.047	1.25	8.39	13.3	330	0.0	clear
0950	11.81	350	5.78	0.045	1.40	8.18	13.3	333	0.0	clear
0955	11.81	350	5.78	0.044	1.37	8.05	13.3	336	0.0	clear
1000	11.81	350	5.76	0.043	1.42	7.89	13.4	337	0.0	clear
1005	11.81	350	5.75	0.042	1.45	7.81	13.4	338	0.0	clear
1010	11.81	350	5.76	0.043	1.50	7.90	13.5	337	0.0	clear
1015	11.81	350	5.76	0.043	1.46	7.93	13.5	337	0.0	clear - collect samples

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-06S-20100914
Sample Location: FT-MW-06S
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1325	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	4.53	0.054	17.29	3.26	8.14	0.0	376

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD):								
Static Water Level (WL): 20.62								
One Casing Volume(gal/L):								
Start Purge (hrs): 1235								
End Purge (hrs): 1325								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-06S
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1235	20.62									
1237	20.63	350	4.76	0.056	1.89	13.64	15.17	312	0.0	Replace tubing
1248	20.63	300	4.35	0.057	119	7.96	16.33	364	0.0	orge tint w/ particulate
1253	20.63	300	4.53	0.055	74.9	8.73	16.64	354	0.0	orange tint w/particulate
1258	20.63	300	4.55	0.055	41.3	8.50	17.19	356	0.0	" "
1303	20.63	300	4.47	0.054	23.7	8.48	17.58	356	0.0	less particulate
1308	20.63	300	4.41	0.053	14.4	8.31	16.90	370	0.0	
1313	20.63	300	4.41	0.054	11.5	8.05	16.95	374	0.0	
1318	20.63	300	4.50	0.054	10.4	8.03	17.01	373	0.0	
1323	20.63	300	4.53	0.054	8.26	8.14	17.29	376	0.0	4 gal
1325	Collect sample									

SIGNATURE(S): Jack Bichtel

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-06I-20100914
Sample Location: FT-MW-06I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1218	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.23	0.046	16.73	0.61	8.20	0.0	255

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 75								
Static Water Level (WL): 26.65								
One Casing Volume(gal/L):								
Start Purge (hrs): 1036								
End Purge (hrs): 1218								
Total Purge Time (min): 102								
Total Vol. Purged (gal/L): 7.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	9 x 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
Yes	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-06I
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1036	21.65									
1038	21.66	300	6.67	0.050	0.00	11.33	15.70	185	0.0	
1043	21.66	300	6.46	0.045	0.00	11.05	15.29	201	0.0	
1053	21.66	300	6.26	0.046	0.00	9.53	17.19	221	0.0	Replaced tubing, not deep enough (not to screen)
1059	21.66	300	6.29	0.046	0.00	10.68	17.09	220	0.0	Tubing not in screen, reset tubing
1114	21.66	300	6.21	0.046	1.07	11.89	15.70	234	0.0	2 gal purged
1119	21.66	300	6.16	0.045	0.80	8.46	15.36	239	0.0	
1124	21.66	300	6.13	0.045	0.72	7.99	15.25	242	0.0	
1133	21.66	300	6.13	0.045	0.52	10.11	15.66	244	0.0	Tubing keeps twisting in casing
1138	21.66	300	6.16	0.045	0.43	8.66	15.93	246	0.0	tie two tubes together to prevent from
1151	21.66	300	6.22	0.045	0.38	6.87	17.18	248	0.0	shifting joints, not sure if now all
1156	21.66	300	6.18	0.045	0.25	9.08	17.13	250	0.0	the way but pretty close
1201	21.66	300	6.16	0.045	0.43	9.03	16.31	254	0.0	
1206	21.66	300	6.20	0.046	0.57	8.64	16.28	253	0.0	
1211	21.66	300	6.22	0.046	0.48	8.50	16.21	254	0.0	
1216	21.66	300	6.23	0.046	0.61	8.20	16.73	255	0.0	7.5 gal purged
1218	Collect VOC	sample	w/ MS/MSD							

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-07S-20100914
Sample Location: FTA
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10 / Time: 1135	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow - peristaltic	Clear	4.36	0.038	14.2	4.09	7.73	0.0	409

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 35'								
Static Water Level (WL): 29.10								
One Casing Volume(gal/L):								
Start Purge (hrs): 1045								
End Purge (hrs): 1135								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	~~Yes~~ No

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed.

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-07S
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1040	29.10	-	-	-	-	-	-	-	-	Initial
1045	29.10	350	4.68	0.042	18.65	8.51	14.6	394	0.0	clear
1050	29.10	350	4.53	0.039	12.20	7.93	14.3	392	0.0	clear
1055	29.10	350	4.53	0.039	8.05	7.90	14.3	395	0.0	clear
1100	29.10	350	4.48	0.039	5.33	7.76	14.3	397	0.0	clear
1105	29.10	350	4.45	0.039	3.47	7.88	14.3	398	0.0	clear
1110	29.10	350	4.40	0.039	4.30	7.79	14.3	400	0.0	clear
1115	29.10	350	4.39	0.039	3.91	7.70	14.3	402	0.0	clear
1120	29.10	350	4.38	0.039	4.25	7.82	14.3	404	0.0	clear
1125	29.10	350	4.38	0.038	4.27	7.71	14.2	406	0.0	clear
1130	29.10	350	4.37	0.038	4.16	7.78	14.2	408	0.0	clear
1135	29.10	350	4.36	0.038	4.09	7.73	14.2	409	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-08S-20100914
Sample Location: FT-MW08S
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0916	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.31	0.109	16.79	0.00	0.00	0.0	-14

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 14								
Static Water Level (WL): 7.83								
One Casing Volume(gal/L):								
Start Purge (hrs): 0826								
End Purge (hrs): 0916								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 2
PROJECT NUMBER: 112-G01655
WELL ID.: FT-MW-08S
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0826	7.88									
0829	7.89	350	6.74	0.187	10.19	1.99	16.30	-30	0.0	slight brown tint
0834	7.89	350	6.75	0.177	2.89	0.49	16.23	-45	0.0	clear
0839	7.89	300	6.71	0.153	0.73	0.31	16.32	-48	0.0	
0844	7.89	300	6.68	0.140	0.35	0.31	16.46	-45	0.0	
0849	7.89	300	6.61	0.123	0.07	0.05	16.50	-38	0.0	
0854	7.89	300	6.53	0.117	0.00	0.04	16.52	-31	0.0	
0859	7.89	300	6.45	0.113	0.00	0.00	16.62	-25	0.0	
0904	7.89	300	6.37	0.111	0.00	0.00	16.66	-20	0.0	
0909	7.89	300	6.35	0.110	0.00	0.00	16.71	-17	0.0	sun radiation heating up water
0914	7.89	300	6.31	0.109	0.00	0.00	16.79	-14	0.0	4.5 gal purged
0916	Collect VOC + MEE		sample							

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-08I-20100914
Sample Location: FT-MW-08I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-14-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1011	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.80	0.118	15.88	0.53	0.00	0.00	133

PURGE DATA:

Date: 9-14-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4" PVC								
Total Well Depth (TD): 33								
Static Water Level (WL): 7.96								
One Casing Volume(gal/L):								
Start Purge (hrs): 0925								
End Purge (hrs): 1011								
Total Purge Time (min): 46								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Site 2
PROJECT NUMBER: 112G01655
WELL ID.: FT-MW-08I
DATE: 9-14-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0925	7.96									
0927	7.97	300	6.26	0.114	3.57	1.10	15.81	91	0.0	Reddish-brown suspended particles
0933	7.97	300	6.02	0.112	2.85	0.05	15.57	103	0.0	clear
0938	7.97	300	5.93	0.113	0.85	0.00	15.53	112	0.0	
0943	7.97	300	5.90	0.114	1.60	0.00	15.41	116	0.0	
0948	7.97	350	5.85	0.117	1.13	0.00	15.47	121	0.0	
0953	7.97	300	5.81	0.118	0.94	0.00	15.46	125	0.0	
0959	7.97	300	5.82	0.117	1.10	0.00	15.71	128	0.0	
1004	7.96	300	5.81	0.118	0.28	0.00	15.88	131	0.0	
1009	7.97	300	5.80	0.118	0.53	0.00	15.88	133	0.0	
1011	Collect VOC + MEE		sample							

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: ____
[] QA Sample Type: ____

Sample ID No.: SA-PZ-118$-20100920
Sample Location: SA-PZ-118$
Sampled By: JB
C.O.C. No.: ____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-20-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 1014								
Method: Low Flow	clear	6.76	0.118	19.55	1.14	0.32	0.0	-31

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-20-10								
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 16								
Static Water Level (WL): 5.29								
One Casing Volume(gal/L):								
Start Purge (hrs): 0925								
End Purge (hrs): 1014								
Total Purge Time (min): 49								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-1185-2
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0925	5.29									
0927	5.29	300	6.73	0.124	6.59	2.03	19.85	-10	0.0	little tan particulate
0932	5.29	300	6.77	0.121	3.49	0.89	19.24	-20	0.0	" "
0937	5.29	300	6.79	0.121	3.66	0.58	19.25	-26	0.0	clear
0942	5.29	300	6.78	0.120	2.39	0.35	19.37	-29	0.0	" "
0947	5.29	300	6.78	0.120	2.13	0.26	19.56	-31	0.0	" "
0952	5.29	300	6.77	0.119	1.84	0.22	19.61	-31	0.0	" "
0957	5.29	300	6.75	0.118	1.04	0.24	19.41	-30	0.0	battery dying adjust speed to maintain flow rate
1002	5.29	300	6.74	0.117	0.72	0.26	19.45	-30	0.0	
1007	5.29	300	6.75	0.117	1.57	0.48	19.38	-31	0.0	
1012	5.29	300	6.76	0.118	1.14	0.32	19.55	-31	0.0	
1014	Collect sample									

SIGNATURE(S): Josh Gabbert

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-118I-20100920
Sample Location: SA-PZ-118I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0916	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.94	0087	17.20	19.8	2.35	0.0	146

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow GrundFos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 60								
Static Water Level (WL): 5.84								
One Casing Volume(gal/L):								
Start Purge (hrs): 0826								
End Purge (hrs): 0916								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-118I
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0826	5.84									
0830	5.85	400	7.13	0.081	141	13.15	17.39	223	0.0	slight light brown tint
0835	5.85	400	7.04	0.083	248	10.13	16.99	175	0.0	light brown
0840	5.85	320	6.94	0.083	167	9.08	17.08	169	0.0	slight light brown tint
0845	5.85	320	6.90	0.084	112	8.46	17.14	161	0.0	" "
0850	5.85	320	6.95	0.085	75.4	3.08	17.10	152	0.0	" "
0855	5.85	320	6.95	0.086	42.0	2.75	17.08	149	0.0	" "
0900	5.85	320	6.95	0.086	34.6	2.63	17.06	147	0.0	clear
0905	5.85	320	6.92	0.086	24.9	2.50	17.10	148	0.0	clear
0910	5.85	320	6.93	0.086	20.9	2.42	17.15	146	0.0	
0915	5.85	320	6.94	0.087	19.8	2.35	17.20	146	0.0	
0916	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-120$-20100920
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10 / Time: 1255	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Low Flow-peristaltic	clear	5.34	0.047	15.2	6.9	6.40	0.0	ORP 208

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow-peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2inch PVC								
Total Well Depth (TD):								
Static Water Level (WL): 6.54								
One Casing Volume(gal/L):								
Start Purge (hrs): 1205								
End Purge (hrs): 1255								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- Slight orange Tint at beginning of purge
- No odors or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Colverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-1205
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1200	6.54	—	—	—	—	—	—	—	—	Initial
1205	6.54	350	~~0.050~~	0.050	118	7.01	14.8	157	0.0	orange Tint
1210	6.54	350	5.44	0.050	80.2	7.50	14.8	168	0.0	orange Tint
1215	6.54	350	5.46	0.049	40.3	7.40	14.9	176	0.0	slight orange Tint
1220	6.54	350	5.38	0.048	18.7	7.18	15.0	188	0.0	clear
1225	6.54	350	5.40	0.048	14.0	6.84	15.1	187	0.0	clear
1230	6.54	350	5.43	0.048	9.2	6.65	15.1	193	0.0	clear
1235	6.54	350	5.41	0.048	9.0	6.43	15.1	196	0.0	clear
1240	6.54	350	5.38	0.048	9.3	6.34	15.1	199	0.0	clear
1245	6.54	350	5.34	0.048	9.1	6.39	15.2	205	0.0	clear
1250	6.54	350	5.34	0.047	8.5	6.42	15.2	207	0.0	clear
1255	6.54	350	5.34	0.047	6.9	6.40	15.2	208	0.0	clear - collect sample

SIGNATURE(S): _____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-122S-20100920
Sample Location: SA-PZ-122S
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-20-10	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Time: 1151								
Method: Low Flow	clear	5.21	0.120	17.04	0.00	3.17	0.0	244

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-20-10								
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 22								
Static Water Level (WL): 15.11								
One Casing Volume(gal/L):								
Start Purge (hrs): 1105								
End Purge (hrs): 1151								
Total Purge Time (min): 46								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Creosote soaked logs upwind of well

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-122S
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1105	15.11									
1107	15.13	320	6.44	0.151	27.0	5.00	16.51	164	0.0	
1112	15.13	320	5.49	0.157	20.1	2.11	16.67	208	0.0	
1117	15.13	320	5.28	0.137	9.09	2.31	16.94	222	0.0	
1123	15.13	320	5.22	0.119	3.74	2.95	16.91	230	0.0	
1129	15.13	320	5.24	0.118	0.86	3.02	17.01	233	0.0	
1134	15.13	320	5.23	0.119	0.00	3.19	16.97	237	0.0	
1139	15.13	320	5.21	0.117	0.00	3.16	17.00	241	0.0	
1144	15.13	320	5.20	0.119	0.00	3.18	17.06	243	0.0	
1149	15.13	320	5.21	0.120	0.00	3.17	17.04	244	0.0	
1151	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-122I-20100920
Sample Location: SA-PZ-122I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1348	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.30	0.099	15.81	0.76	0.00	0.0	119

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 49								
Static Water Level (WL): 14.92								
One Casing Volume(gal/L):								
Start Purge (hrs): 1259								
End Purge (hrs): 1348								
Total Purge Time (min): 49								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	9 x 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Creosote logs for railroad upwind of well

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-122I
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1259	14.92									
1301	14.93	375	6.78	0.097	167	6.33	17.02	44	0.0	
1306	14.93	320	6.35	0.087	13.2	0.38	15.94	79	0.0	
1311	14.93	320	6.25	0.088	3.38	0.00	15.88	92	0.0	
1316	14.93	320	6.25	0.090	3.13	0.00	15.83	96	0.0	
1321	14.93	300	6.28	0.094	1.95	0.00	15.80	100	0.0	
1326	14.93	250	6.30	0.097	1.87	0.00	16.45	106	0.0	Pump temporarily slowed
1331	14.93	300	6.30	0.097	1.78	0.00	15.82	109	0.0	
1336	14.93	300	6.30	0.096	1.38	0.00	15.78	113	0.0	
1341	14.93	300	6.29	0.096	0.80	0.00	15.72	116	0.0	
1346	14.93	300	6.30	0.099	0.76	0.00	15.81	119	0.0	
1348	Collect sample	w/ MSM	SD							

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-PZ-122D-20100920
Sample Location: SA-PZ-122D
Sampled By: JB
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1252	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	slight tan tint	6.81	0.135	16.79	164	0.0	0.0	-39

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): -								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 13.75 132								
Static Water Level (WL): 13.75								
One Casing Volume(gal/L):								
Start Purge (hrs): 1202								
End Purge (hrs): 1252								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

Creosote logs upwind of well

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NW IRP Culvert
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-122D
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1202	13.75									
1204	13.77	320	6.11	0.086	9.54	5.31	17.07	83	0.0	
1209	13.77	320	6.57	0.106	8.61	2.52	16.30	-9	0.0	
1214	13.77	420	6.67	0.114	2651	1.90	16.25	-12	0.0	pump temporarily sped up
1219	13.77	320	6.70	0.132	2159	0.00	15.82	-23	0.0	
1224	13.77	300	6.73	0.132	1332	0.00	16.46	-27	0.0	
1229	13.77	300	6.74	0.133	1061	0.00	16.46	-31	0.0	
1234	13.77	300	6.80	0.135	854	0.00	16.62	-34	0.0	
1239	13.77	300	6.80	0.136	594	0.00	16.70	-35	0.0	
1244	13.77	300	6.79	0.136	155	0.00	16.77	-37	0.0	
1249	13.77	300	6.81	0.135	164	0.00	16.79	-39	0.0	
1252	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-PZ-1234-20100920
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1130	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Peristaltic	Clear	4.95	0.067	16.4	0.0	2.41	0.0	-52

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 9.40'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1035								
End Purge (hrs): 1130								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 4.9								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-123S
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
~~0833~~	9.40	—	—	—	—	—	—	—	—	Initial
1035	9.40	350	5.12	0.081	8.2	1.02	16.0	-50	0.0	clear
1040	9.40	350	5.16	0.084	3.1	0.48	16.0	-50	0.0	clear
1045	9.40	350	4.98	0.071	0.4	1.30	16.2	-40	0.0	clear
1050	9.40	350	4.97	0.068	0.0	2.03	16.4	-44	0.0	clear
1055	9.40	350	4.97	0.068	0.0	1.96	16.5	-46	0.0	clear
1100	9.40	350	4.96	0.067	0.0	1.88	16.4	-48	0.0	clear
1105	9.40	350	4.96	0.067	0.0	2.40	16.5	-50	0.0	clear
1110	9.40	350	4.96	0.068	0.0	2.87	16.4	-52	0.0	clear
1115	9.40	350	4.96	0.067	0.0	2.45	16.5	-52	0.0	clear
1120	9.40	350	4.96	0.067	0.0	2.47	16.5	-50	0.0	clear
1125	9.40	350	4.96	0.067	0.0	2.39	16.4	-51	0.0	clear
1130	9.40	350	4.95	0.067	0.0	2.41	16.4	-52	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-123I1-20100920
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1020	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Peristaltic	clear	5.57	0.065	13.1	0.0	0.27	0.0	108

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 42'								
Static Water Level (WL): 9.92'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0930								
End Purge (hrs): 1020								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.: (1200)
—	SA-DUP04-20100920

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-123I1
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0927	9.92	—	—	—	—	—	—	—	—	Initial
0930	9.92	~~300~~	~~0.086~~	0.086	12.4	1.30	13.7	57	0.0	clear
0935	9.92	350	5.63	0.071	0.8	0.45	13.0	90	0.0	clear
0940	9.92	350	5.58	0.069	0.0	0.30	13.1	96	0.0	clear
0945	9.92	350	5.59	0.068	0.0	0.29	13.2	101	0.0	clear
0950	9.92	350	5.58	0.067	0.0	0.29	13.2	103	0.0	clear
0955	9.92	350	5.57	0.066	0.0	0.29	13.2	105	0.0	clear
1000	9.92	350	5.58	0.066	0.0	0.29	13.2	106	0.0	clear
1005	9.92	350	5.57	0.066	0.0	0.28	13.2	108	0.0	clear
1010	9.92	350	5.58	0.065	0.0	0.28	13.1	108	0.0	clear
1015	9.92	350	5.57	0.065	0.0	0.28	13.1	108	0.0	clear
1020	9.92	350	5.57	0.065	0.0	0.27	13.1	108	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-123I-20100920
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0920	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Redi-Flow	clear	6.05	0.113	12.5	0.0	0.27	0.0	-86

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Redi-Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 80'								
Static Water Level (WL): 10.56'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0820								
End Purge (hrs): 0920								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed
- Pump set in screen interval of well

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-123I
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0815	10.56	—	—	—	—	—	—	—	—	Initial
0820	10.56	350	5.66	0.121	43.2	4.35	13.8	227	0.0	slight Tan Tint
0825	10.56	350	5.53	0.109	3.6	2.58	12.9	238	0.0	clear
0830	10.56	350	5.42	0.103	0.4	1.25	12.7	167	0.0	clear
0835	10.56	350	5.44	0.100	0.2	0.91	12.7	81	0.0	clear
0840	10.56	350	5.46	0.100	0.0	0.83	12.7	-18	0.0	clear
0845	10.56	350	5.61	0.104	0.0	0.54	12.6	-46	0.0	clear
0850	10.56	350	5.72	0.104	0.0	0.44	12.6	-57	0.0	clear
0855	10.56	350	5.81	0.105	0.0	0.39	12.5	-65	0.0	clear
0900	10.56	350	5.88	0.107	0.0	0.37	12.6	-71	0.0	clear
0905	10.56	350	5.95	0.109	0.0	0.33	12.5	-77	0.0	clear
0910	10.56	350	6.02	0.111	0.0	0.29	12.5	-82	0.0	clear
0915	10.56	350	6.04	0.112	0.0	0.28	12.5	-84	0.0	clear
0920	10.56	350	6.05	0.113	0.0	0.27	12.5	-86	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-140-20100921
Sample Location: SA-PZ-140
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1100	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	Clear	6.24	0.122	14.71	5.5	0.00	0.0	64

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 49.5								
Static Water Level (WL): 14.42								
One Casing Volume(gal/L):								
Start Purge (hrs): 1018								
End Purge (hrs): 1100								
Total Purge Time (min): 42								
Total Vol. Purged (gal/L): 4.1								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: SA-Dup05-20100921 (1209)

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-140
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1018	14.42	350								
1019	14.47	300	6.80	0.126	1.5	2.16	14.78	44	0.0	
1024	14.47	300	6.48	0.123	0.2	0.56	14.69	59	0.0	
1029	14.47	300	6.31	0.122	0.2	0.15	14.70	64	0.0	
1034	14.47	300	6.27	0.123	0.7	0.00	14.73	64	0.0	
1039	14.47	300	6.27	0.122	0.8	0.00	14.74	64	0.0	
1044	14.47	300	6.23	0.122	1.5	0.00	14.73	65	0.0	
1049	14.47	300	6.23	0.122	1.6	0.00	14.64	65	0.0	
1054	14.47	300	6.24	0.122	5.7	0.00	14.78	64	0.0	
1058	14.47	300	6.24	0.122	5.5	0.00	14.71	64	0.0	
1100	Collect sample w/ Dup									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-143-20100920
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-20-10 / Time: 1545	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: Low Flow - peristaltic	Clear	6.36	0.140	14.6	0.0	0.00	0.0	41

PURGE DATA:

Date: 9-20-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1 inch PVC								
Total Well Depth (TD): 43'								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs): 1505								
End Purge (hrs): 1545								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 4.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed.

Circle If Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-143
DATE: 9-20-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1500	15.19	-	-	-	-	-	-	-	-	Initial
1505	15.19	300	6.68	0.167	24.98	4.87	15.9	25	0.0	clear
1510	15.19	300	6.57	0.143	15.13	1.43	15.2	41	0.0	clear
1515	15.20	300	6.45	0.142	1.8	0.65	14.8	45	0.0	clear
1520	15.20	300	6.42	0.140	0.0	0.28	14.6	45	0.0	clear
1525	15.20	300	6.40	0.141	0.0	0.07	14.6	44	0.0	clear
1530	15.20	300	6.38	0.140	0.0	0.02	14.7	43	0.0	clear
1535	15.20	300	6.37	0.140	0.0	0.00	14.8	42	0.0	clear
1540	15.20	300	6.36	0.140	0.0	0.00	14.7	42	0.0	clear
1545	15.20	300	6.36	0.140	0.0	0.00	14.6	41	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-PZ-145$-20100921
Sample Location: SA-PZ-145$
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

SAMPLING DATA:

Date: 9-21-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1222								
Method: Low Flow Peristaltic	clear	4.78	0.114	16.78	0.0	0.00	0.0	269

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 15								
Static Water Level (WL): 10.15								
One Casing Volume(gal/L):								
Start Purge (hrs): 1127								
End Purge (hrs): 1222								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 45 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-145S
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1127	10.15									
1129	10.17	400	5.58	0.087	10.5	4.25	16.42	141	0.0	clear
1134	10.17	320	4.91	0.103	0.9	0.73	16.80	167	0.0	clear
1140	10.17	320	4.83	0.110	0.0	0.06	16.76	197	0.0	
1145	10.17	320	4.82	0.110	0.0	0.00	16.83	207	0.0	
1150	10.17	320	4.80	0.112	0.0	0.00	16.72	219	0.0	
1155	10.17	320	4.78	0.112	0.0	0.00	16.70	232	0.0	
1200	10.17	320	4.78	0.113	0.0	0.00	16.73	237	0.0	
1205	10.17	320	4.79	0.114	0.0	0.00	16.71	247	0.0	
1210	10.17	320	4.78	0.114	0.0	0.00	16.74	255	0.0	
1215	10.17	320	4.79	0.115	0.0	0.00	16.75	262	0.0	
1220	10.17	320	4.78	0.114	0.0	0.00	16.78	269	0.0	
1222	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-145I-20100921
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1325	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	Clear	5.70	0.095	12.3	0.0	0.25	0.0	41

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 35'								
Static Water Level (WL): 9.35								
One Casing Volume(gal/L):								
Start Purge (hrs): 1235								
End Purge (hrs): 1325								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.: (1600)
-	SA-DUP06-20100921

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: SA-PZ-145I
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1230	9.35	—	—	—	—	—	—	—	—	Initial
1235	9.35	~~3.80~~	~~0.102~~	0.102	740	1.58	12.6	29	0.0	cloudy - Gray
1240	9.35	350	5.92	0.099	218	0.47	12.7	45	0.0	cloudy - Gray
1245	9.36	320	5.78	0.098	84.4	0.30	12.6	47	0.0	slight Tint - Gray
1250	9.36	320	5.71	0.097	31.5	0.26	12.5	49	0.0	slight Tint - Gray
1255	9.36	320	5.69	0.096	8.3	0.25	12.4	49	0.0	clear
1300	9.36	320	5.69	0.096	1.2	0.24	12.4	47	0.0	clear
1305	9.36	320	5.68	0.095	0.0	0.26	12.3	47	0.0	clear
1310	9.36	320	5.69	0.096	0.0	0.24	12.4	45	0.0	clear
1315	9.36	320	5.69	0.096	0.0	0.25	12.4	43	0.0	clear
1320	9.36	320	5.70	0.095	0.0	0.25	12.4	42	0.0	clear
1325	9.36	320	5.70	0.095	0.0	0.25	12.3	41	0.0	clear - collect sample

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-1451-20100921
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1215	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	clear	5.97	0.080	12.7	0.0	0.25	0.0	-115

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 1" PVC								
Total Well Depth (TD): 55'								
Static Water Level (WL): 9.72'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1125								
End Purge (hrs): 1215								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-145D-
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1122	9.72	—	—	—	—	—	—	—	—	Initial
1125	9.72	350	5.94	0.090	37.2	1.40	12.9	-18	0.0	Slight Tan Tint
1130	9.72	325	6.04	0.085	18.8	0.51	12.8	-87	0.0	clear
1135	9.72	350	6.02	0.081	9.9	0.28	12.7	-104	0.0	clear
1140	9.72	350	6.02	0.081	0.4	0.27	12.7	-108	0.0	clear
1145	9.72	350	6.02	0.081	0.0	0.26	12.8	-110	0.0	clear
1150	9.72	350	6.00	0.080	0.0	0.25	12.7	-112	0.0	clear
1155	9.72	350	5.98	0.080	0.0	0.25	12.6	-113	0.0	clear
1200	9.72	350	5.97	0.080	0.0	0.25	12.7	-114	0.0	clear
1205	9.72	350	5.97	0.080	0.0	0.25	12.7	-114	0.0	clear
1210	9.72	350	5.97	0.080	0.0	0.25	12.8	-115	0.0	clear
1215	9.72	350	5.97	0.080	0.0	0.25	12.7	-115	0.0	clear collect Sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-166I-20100917
Sample Location: SA-PZ-166I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-17-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1005	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	7.60	0.155	16.71	4.07	0.00	0.0	-129

PURGE DATA:

Date: 9-17-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL) 6.48								
One Casing Volume(gal/L):								
Start Purge (hrs): 0910								
End Purge (hrs): 1005								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-PZ-166I
DATE: 9-17-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0910	6.48									
0912	6.49	350	6.99	0.160	9.39	8.33	17.57	-69	0.0	
0917	6.49	300	7.24	0.157	30.8	1.73	17.45	-103	0.0	
0922	6.49	300	7.37	0.156	26.2	0.63	17.17	-115	0.0	
0927	6.49	300	7.45	0.156	39.8	0.29	17.10	-121	0.0	
0932	6.49	300	7.50	0.155	25.6	0.22	17.03	-124	0.0	
0938	6.49	300	7.53	0.155	19.6	0.00	16.73	-126	0.0	
0943	6.49	300	7.55	0.155	11.7	0.00	16.74	-127	0.0	
0948	6.50	300	7.58	0.155	9.04	0.00	16.80	-128	0.0	
0953	6.50	300	7.59	0.155	6.44	0.00	16.77	-128	0.0	
0958	6.50	300	7.60	0.155	6.84	0.00	16.83	-129	0.0	
1003	6.50	300	7.60	0.155	4.07	0.00	16.71	-129	0.0	
1005	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: ____
[] QA Sample Type: ____

Sample ID No.: SA-MW-126S-20100916
Sample Location: SA-MW-126S
Sampled By: JB
C.O.C. No.: ____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-16-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 1201								
Method: Low Flow	clear	5.55	0.049	18.25	2.31	0.00	0.0	4

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-16-10								
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 15								
Static Water Level (WL): 5.52								
One Casing Volume(gal/L):								
Start Purge (hrs): 1114								
End Purge (hrs): 1201								
Total Purge Time (min): 47								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-126S
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1114	5.52									
1116	5.54	300	7.50	0.059	20.6	8.23	18.45	1	0.0	
1121	5.54	300	5.98	0.055	11.7	0.77	18.27	16	0.0	
1126	5.54	300	5.72	0.052	10.9	0.08	18.23	14	0.0	
1131	5.54	300	5.65	0.051	1.86	0.00	18.36	12	0.0	
1136	5.54	300	5.61	0.050	1.01	0.00	18.42	9	0.0	
1142	5.54	300	5.58	0.049	2.70	0.00	18.30	7	0.0	
1148	5.54	300	5.58	0.049	1.94	0.00	18.38	6	0.0	
1153	5.54	300	5.56	0.049	2.27	0.00	18.22	5	0.0	
1158	5.54	300	5.55	0.049	2.31	0.00	18.25	4	0.0	
1201	Collect sampl									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: ____
[] QA Sample Type: ____

Sample ID No.: SA-MW-126I-20100916
Sample Location: SA-MW-126I
Sampled By: JB
C.O.C. No.: ____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1254	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.91	0.116	16.53	20.5	0.00	0.0	-22

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL): 5.65								
One Casing Volume(gal/L):								
Start Purge (hrs): 1210								
End Purge (hrs): 1254								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	9 ~~3~~ 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
Yes	—

Signature(s): Jack Cahill

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-126I
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1210	5.65									
1212	5.67	400	6.39	0.125	420	2.69	16.58	10	0.0	Some brown particulate (algae)
1217	5.67	320	6.60	0.128	232	0.92	16.63	0	0.0	
1222	5.67	300	6.69	0.125	226	0.00	16.73	-6	0.0	
1227	5.67	300	6.77	0.121	125	0.00	16.73	-10	0.0	
1232	5.67	300	6.82	0.120	85.9	0.00	16.71	-13	0.0	
1237	5.67	300	6.85	0.118	53.7	0.00	16.70	-16	0.0	
1242	5.67	300	6.89	0.117	36.0	0.00	16.61	-20	0.0	
1247	5.67	300	6.90	0.116	24.4	0.00	16.54	-21	0.0	
1252	5.67	300	6.91	0.116	20.5	0.00	16.53	-22	0.0	
1254	Collect Sample									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-126D-20100916
Sample Location: SA-MW-126D
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1110	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	7.92	0.117	16.57	103.6	0.00	0.0	-70

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 84								
Static Water Level (WL): 7.10								
One Casing Volume(gal/L):								
Start Purge (hrs): 1026								
End Purge (hrs): 1110								
Total Purge Time (min): 44								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-126D-20100916
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1026	7.10									
1028	7.12	320	7.13	0.108	5.66	5.37	17.60	13	0.0	
1033	7.12	320	7.34	0.117	354	1.76	16.91	-23	0.0	
1038	7.12	320	7.60	0.128	1269	0.72	16.47	-55	0.0	light tan (silty)
1043	7.12	320	7.74	0.126	901	0.38	16.49	-64	0.0	
1048	7.12	320	7.86	0.122	406	0.09	16.40	-70	0.0	
1053	7.12	320	7.91	0.120	413	0.00	16.45	-72	0.0	
1058	7.12	320	7.88	0.120	260	0.09	16.52	-68	0.0	
1103	7.12	320	7.90	0.118	144	0.00	16.61	-69	0.0	
1108	7.12	320	7.92	0.117	103.6	0.00	16.57	-70	0.0	
1110	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-127S-20100916
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1430	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	clear	5.30	0.050	15.4	0.0	2.55	0.0	220

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 15'								
Static Water Level (WL): 7.44								
One Casing Volume(gal/L):								
Start Purge (hrs): 1340								
End Purge (hrs): 1430								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-127S
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1345	7.44	—	—	—	—	—	—	—	—	Initial
1340	7.44	350	5.97	0.061	160	3.90	15.0	112	0.0	orange Tint
1345	7.44	350	5.53	0.047	18.3	2.40	15.1	182	0.0	clear
1350	7.44	350	5.44	0.048	11.2	2.29	15.1	193	0.0	clear
1355	7.44	350	5.33	0.049	9.0	2.50	15.2	205	0.0	clear
1400	7.44	350	5.30	0.049	5.3	2.71	15.3	212	0.0	clear
1405	7.44	350	5.29	0.049	1.4	2.72	15.3	216	0.0	clear
1410	7.44	350	5.29	0.049	0.5	2.70	15.3	218	0.0	clear
1415	7.44	350	5.29	0.050	0.0	2.63	15.4	219	0.0	clear
1420	7.44	350	5.29	0.050	0.0	2.58	15.4	219	0.0	clear
1425	7.44	350	5.30	0.050	0.0	2.56	15.4	220	0.0	clear
1430	7.44	350	5.30	0.050	0.0	2.55	15.4	220	0.0	clear-collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-MW-127I-20100916
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1320	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	Clear	5.89	0.079	13.0	0.0	0.25	0.0	119

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 46'								
Static Water Level (WL): 7.61'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1120								
End Purge (hrs): 1320								
Total Purge Time (min): 65								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.: (1800)
—	SA-DUP03-20100916

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-127I
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1215	7.61	—	—	—	—	—	—	—	—	Initial
1220	7.61	350	6.98	0.095	8.5	1.45	14.9	-45	0.0	clear
1225	7.61	350	6.55	0.084	2.2	0.81	13.8	19	0.0	clear
1230	7.61	350	6.32	0.081	1.3	0.26	13.5	44	0.0	clear
1235	7.61	350	6.18	0.080	1.0	0.26	13.3	75	0.0	clear
1240	7.61	350	6.07	0.080	0.7	0.26	13.3	91	0.0	clear
1245	7.61	350	6.00	0.079	0.5	0.25	13.2	103	0.0	clear
1250	7.61	350	5.96	0.079	0.0	0.25	13.2	110	0.0	clear
1255	7.61	350	5.92	0.079	0.0	0.25	13.1	115	0.0	clear
1300	7.61	350	5.90	0.079	0.0	0.25	13.1	117	0.0	clear
1305	7.61	350	5.90	0.079	0.0	0.25	13.1	119	0.0	clear
1310	7.61	350	5.89	0.079	0.0	0.24	13.0	119	0.0	clear
1315	7.61	350	5.89	0.079	0.0	0.25	13.0	119	0.0	clear
1320	7.61	350	5.89	0.079	0.0	0.25	13.0	119	0.0	clear - collect sample

SIGNATURE(S): CHAR

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW127D-20100916
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1150	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Redi-Flow	clear	7.30	0.092	12.8	0.2	2.04	0.10	-128

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - Redi-Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2-inch PVC								
Total Well Depth (TD): 78'								
Static Water Level (WL): 8.43								
One Casing Volume(gal/L):								
Start Purge (hrs): 10.50								
End Purge (hrs): 1150								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-127D
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1046	8.43	—	—	—	—	—	—	—	—	Initial
1050	8.43	350	7.05	0.100	13.4	9.89	13.9	-148	0.0	clear
1055	8.43	350	7.09	0.096	2.6	8.67	13.3	-124	0.0	clear
1100	8.43	350	7.07	0.094	1.2	7.03	13.0	-102	0.0	clear
1105	8.43	350	7.06	0.094	0.8	6.29	13.0	-102	0.0	clear
1110	8.43	350	7.08	0.094	0.5	5.48	13.0	-107	0.0	clear
1115	8.43	350	7.11	0.094	0.7	4.85	12.9	-120	0.0	clear
1120	8.43	350	7.15	0.094	0.8	4.20	12.9	-124	0.0	clear
1125	8.43	350	7.19	0.094	0.9	3.60	12.9	-128	0.0	clear
1130	8.43	350	7.22	0.093	1.0	3.11	12.8	-127	0.0	clear
1135	8.43	350	7.26	0.092	0.8	2.65	12.9	-126	0.0	clear
1140	8.43	350	7.28	0.092	0.7	2.33	12.8	-125	0.0	clear
1145	8.43	350	7.29	0.092	0.3	2.17	12.8	-127	0.0	clear
1150	8.43	350	7.30	0.092	0.2	2.04	12.8	-128	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-128$-20100916
Sample Location: SA-MW-128$
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1545	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear w/some org. particulate	5.99	0.071	17.15	51.8	0.71	0.0	102

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 17								
Static Water Level (WL): 9.36								
One Casing Volume(gal/L):								
Start Purge (hrs): 1455								
End Purge (hrs): 1545								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

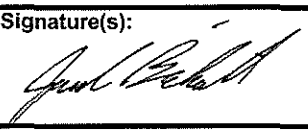
OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-128S
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1455	9.36									
1457	9.36	320	6.77	0.086	Out of range	5.31	16.85	19	0.0	Org. orangish water,
1502	9.36	300	6.17	0.075	243	0.96	17.16	40	0.0	orange particulate
1507	9.36	300	5.96	0.071	102.9	0.00	17.04	58	0.0	less " "
1512	9.36	300	6.02	0.070	87.4	0.00	16.98	69	0.0	" "
1517	9.36	300	5.97	0.069	89.9	0.56	17.04	73	0.0	" "
1522	9.36	300	5.98	0.070	83.1	0.60	17.01	87	0.0	" "
1528	9.36	300	5.97	0.070	48.0	0.58	17.04	94	0.0	
1533	9.36	300	5.99	0.070	41.8	0.67	17.07	99	0.0	" "
1538	9.36	300	6.01	0.070	57.9	0.68	17.26	102	0.0	" "
1543	9.36	300	5.99	0.071	51.8	0.71	17.15	102	0.0	
1545	Collect sample									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: _____
[] QA Sample Type: _____

Sample ID No.: SA-MW-12BI-20100917
Sample Location: SA-MW-12BI
Sampled By: JB
C.O.C. No.: _____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-17-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0840	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	Clear	5.98	0.080	15.64	4.08	6.52	0.0	92

PURGE DATA:

Date: 9-17-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 40								
Static Water Level (WL): 9.80								
One Casing Volume(gal/L):								
Start Purge (hrs): 0750								
End Purge (hrs): 0840								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-128I
DATE: 9-17-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0750	9.80									
0753	9.81	320	6.48	0.131	51.2	8.30	16.23	51	0.0	
0758	9.81	300	6.08	0.106	37.0	9.36	15.46	71	0.0	
0803	9.81	300	6.01	0.097	16.2	8.77	15.57	81	0.0	
0808	9.81	300	6.00	0.093	21.2	8.53	15.58	84	0.0	little fluffy orange material
0813	9.81	300	5.99	0.086	39.4	8.15	15.62	86	0.0	" "
0818	9.81	300	5.97	0.080	24.0	7.84	15.57	88	0.0	" "
0823	9.81	300	6.00	0.081	10.94	7.51	15.53	89	0.0	" "
0828	9.81	300	6.00	0.081	15.4	7.09	15.73	91	0.0	" "
0833	9.81	300	5.99	0.081	6.53	6.96	15.50	92	0.0	
0838	9.81	300	5.98	0.080	4.08	6.52	15.64	92	0.0	
0840	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-128D-20100916
Sample Location: SA-MW-128D
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1451	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	slightly tan	6.10	0.069	15.86	268	0.00	0.0	-2

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 68								
Static Water Level (WL): 9.50								
One Casing Volume(gal/L):								
Start Purge (hrs): 1404								
End Purge (hrs): 1451								
Total Purge Time (min): 47								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-128D-7
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1404	9.50									
1407	9.53	320	6.83	0.070	112	12.13	15.95	44	0.0	
1412	9.53	320	6.51	0.079	2096	9.23	15.67	21	0.0	light brown
1417	9.53	320	6.25	0.073	2013	4.00	15.72	14	0.0	" "
1424	9.53	320	6.12	0.070	1359	0.00	15.90	9	0.0	
1429	9.53	320	6.15	0.069	870	0.00	15.86	5	0.0	
1434	9.53	320	6.14	0.069	458	0.00	15.89	4	0.0	
1439	9.53	320	6.12	0.069	322	0.00	15.87	1	0.0	
1444	9.53	320	6.11	0.069	279	0.00	15.84	-1	0.0	
1449	9.53	320	6.10	0.069	268	0.00	15.86	-2	0.0	
1451	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-1295-20100917
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-17-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 0945								
Method: Low Flow - peristaltic	Clear	4.87	0.050	12.5	0.0	2.45	0.0	264

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-17-10								
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2inch PVC								
Total Well Depth (TD): 29.5'								
Static Water Level (WL): 22.34								
One Casing Volume(gal/L):								
Start Purge (hrs): 0855								
End Purge (hrs): 0945								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: SA-MW-129S
DATE: 9-17-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0850	22.34	—	—	—	—	—	—	—	—	Initial
0955	22.34	350	5.49	0.061	75.2	4.40	12.5	85	0.0	Ten Tint
0900	22.34	350	5.15	0.056	13.9	2.11	12.3	171	0.0	clear
0905	22.34	350	5.00	0.055	7.7	2.10	12.5	203	0.0	clear
0910	22.34	350	4.93	0.053	2.1	2.28	12.5	217	0.0	clear
0915	22.34	350	4.94	0.052	0.9	2.29	12.6	225	0.0	clear
0920	22.34	350	4.90	0.052	0.2	2.31	12.5	236	0.0	clear
0925	22.34	350	4.85	0.051	0.4	2.36	12.5	247	0.0	clear
0930	22.34	350	4.87	0.050	0.2	2.41	12.5	252	0.0	clear
0935	22.34	350	4.87	0.050	0.0	2.44	12.5	260	0.0	clear
0940	22.34	350	4.87	0.050	0.0	2.43	12.5	262	0.0	clear
0945	22.34	350	4.87	0.050	0.0	2.45	12.5	264	0.0	clear - collect sample

SIGNATURE(S): _____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-129I-20100917
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-17-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0835	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - peristaltic	clear	5.21	0.061	12.7	0.0	0.98	0.0	108

PURGE DATA:

Date: 9-17-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 60'								
Static Water Level (WL): 22.63								
One Casing Volume(gal/L):								
Start Purge (hrs): 0745								
End Purge (hrs): 0835								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle If Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: SA-MW-129I
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0740	22.63	—	—	—	—	—	—	—	—	Initial
0745	22.63	350	5.45	0.087	96.3	3.64	12.9	-46	0.0	Tan Tint
0750	22.63	350	5.31	0.068	60.6	2.63	12.4	65	0.0	slight Tan Tint
0755	22.63	350	5.08	0.065	22.4	2.77	12.5	110	0.0	clear
0800	22.63	350	5.04	0.065	14.3	2.17	12.5	113	0.0	clear
0805	22.63	350	5.04	0.064	8.1	1.85	12.6	116	0.0	clear
0810	22.63	350	5.06	0.063	3.0	1.60	12.7	117	0.0	clear
0815	22.63	350	5.10	0.062	0.8	1.26	12.6	114	0.0	clear
0820	22.63	350	5.15	0.062	0.5	1.15	12.6	109	0.0	clear
0825	22.63	350	5.19	0.062	0.0	1.08	12.7	108	0.0	clear
0830	22.63	350	5.20	0.061	0.0	1.02	12.7	109	0.0	clear
0835	22.63	350	5.21	0.061	0.0	0.98	12.7	108	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-129D-20100916
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-16-10								
Time: 1550	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Redi-Flow	clear	6.58	0.142	12.3	0.0	0.34	0.0	-127

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-16-10								
Method: Low Flow - Redi-Flow	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 90'								
Static Water Level (WL): 22.60'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1500								
End Purge (hrs): 1550								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-129D
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1458	22.60	—	—	—	—	—	—	—	—	Initial
1500	22.60	350	6.07	0.140	87.3	1.68	12.6	-81	0.0	Tan Tint
1505	22.60	350	6.29	0.145	18.9	0.97	12.4	-112	0.0	clear
1510	22.60	350	6.38	0.143	10.1	0.85	12.3	-121	0.0	clear
1515	22.60	350	6.41	0.142	2.7	0.79	12.3	-123	0.0	clear
1520	22.60	350	6.44	0.141	0.0	0.75	12.3	-124	0.0	clear
1525	22.60	350	6.48	0.141	0.0	0.66	12.3	-126	0.0	clear
1530	22.60	350	6.53	0.142	0.0	0.51	12.3	-125	0.0	clear
1535	22.66	350	6.57	0.142	0.0	0.42	12.3	-126	0.0	clear
1540	22.60	350	6.58	0.141	0.0	0.37	12.3	-127	0.0	clear
1545	22.60	350	6.57	0.142	0.0	0.35	12.3	-127	0.0	clear
1550	22.60	350	6.58	0.142	0.0	0.34	12.3	-127	0.0	clear - collect sample

SIGNATURE(S): _____

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: —
[] QA Sample Type: —

Sample ID No.: SA-MW-130S-20100916
Sample Location: SA-MW-130S
Sampled By: JB
C.O.C. No.: —
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-16-10	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Time: 0934								
Method: Low Flow	clear	6.25	0.057	17.52	1.98	7.08	0.0	192

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-16-10								
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 19								
Static Water Level (WL): 13.63								
One Casing Volume(gal/L):								
Start Purge (hrs): 0843								
End Purge (hrs): 0934								
Total Purge Time (min): 46								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-130S
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0848	13.63									
0850	13.63	300	6.68	0.063	79.3	10.15	19.57	186	0.0	Brown fluffy material (algae)
0856	13.63	300	6.16	0.056	15.1	7.36	17.58	210	0.0	
0901	13.63	300	6.19	0.057	10.66	7.19	17.69	207	0.0	
0906	13.63	300	6.26	0.057	5.79	8.94	17.37	204	0.0	Pumped horiba cell (Alga)
0911	13.63	300	6.27	0.057	4.62	7.28	17.42	200	0.0	
0917	13.63	300	6.29	0.057	4.54	7.19	17.46	196	0.0	
0922	13.63	300	6.28	0.056	3.60	7.16	17.47	195	0.0	
0927	13.63	300	6.25	0.058	2.44	7.19	17.48	193	0.0	
0932	13.63	300	6.25	0.057	1.98	7.08	17.52	192	0.0	
0934	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-130I-20100916
Sample Location: SA-MW-130I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-16-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0842								
Method: Low Flow	clear	5.90	0.110	16.60	12.4	2.48	0.0	235

PURGE DATA:

Date: 9-16-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Grundfos	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 50								
Static Water Level (WL): 13.39								
One Casing Volume(gal/L):								
Start Purge (hrs): 0752								
End Purge (hrs): 0842								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton Southern Area
PROJECT NUMBER: 112601655
WELL ID.: SA-MW-130I
DATE: 9-16-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0752	13.39									
0754	13.41	300	6.41	0.116	1060	7.37	15.63	212	0.0	Light brown
0759	13.41	300	6.09	0.112	841	4.81	15.53	209	0.0	" "
0805	13.41	300	5.97	0.111	253	2.88	15.79	216	0.0	
0810	13.41	300	5.95	0.110	148	2.72	15.94	220	0.0	
0815	13.41	300	5.93	0.110	67.2	2.70	16.05	225	0.0	
0820	13.41	300	5.93	0.110	33.6	2.53	16.15	228	0.0	
0825	13.41	300	5.91	0.110	19.8	2.60	16.34	230	0.0	
0830	13.41	300	5.92	0.110	18.2	2.49	16.60	232	0.0	
0835	13.41	300	5.90	0.110	15.0	2.50	16.70	234	0.0	
0840	13.41	300	5.90	0.110	12.4	2.48	16.60	235	0.0	
0842	Collect sample									

SIGNATURE(S):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type: _____
[] QA Sample Type: _____

Sample ID No.: SA-MW-131S-20100921
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.: _____
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1055	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow - Peristaltic	clear	5.57	0.085	15.5	0.0	0.35	0.0	-73

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 14'								
Static Water Level (WL): 8.98								
One Casing Volume(gal/L):								
Start Purge (hrs): 1005								
End Purge (hrs): 1055								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: SA-MW-131S
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1000	8.98	—	—	—	—	—	—	—	—	Initial
1005	8.98	350	5.80	0.088	39.1	1.03	15.1	-59	0.0	Tan Tint
1010	8.98	350	5.71	0.087	18.3	0.41	15.2	-68	0.0	clear
1015	8.98	350	5.64	0.086	5.6	0.30	15.3	-65	0.0	clear
1020	8.98	350	5.62	0.086	2.0	0.30	15.3	-65	0.0	clear
1025	8.98	350	5.60	0.086	0.2	0.29	15.4	-65	0.0	clear
1030	8.98	350	5.60	0.085	0.0	0.30	15.4	-66	0.0	clear
1035	8.98	350	5.59	0.086	0.0	0.32	15.4	-69	0.0	clear
1040	8.98	350	5.58	0.086	0.0	0.33	15.4	-71	0.0	clear
1045	8.98	350	5.59	0.085	0.0	0.34	15.4	-72	0.0	clear
1050	8.98	350	5.58	0.086	0.0	0.35	15.5	-72	0.0	
1055	8.98	350	5.57	0.085	0.0	0.35	15.5	-73	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-131I-20100921
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0950	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow-peristaltic	clear	5.65	0.064	11.9	0.0	4.78	0.0	127

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2inch PVC								
Total Well Depth (TD): 40'								
Static Water Level (WL): 8.64								
One Casing Volume(gal/L):								
Start Purge (hrs): 0850								
End Purge (hrs): 0950								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-131I
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0843	8.64	—	—	—	—	—	—	—	—	Initial
0850	8.64	350	5.79	0.068	13.3	8.11	12.6	69	0.0	clear
0855	8.64	350	5.70	0.064	9.2	8.05	12.3	88	0.0	clear
0900	8.64	350	5.65	0.063	3.3	7.42	12.0	129	0.0	clear
0905	8.64	350	5.64	0.063	0.9	7.03	12.0	146	0.0	clear
0910	8.64	350	5.64	0.063	0.1	7.01	12.0	148	0.0	clear
0915	8.64	350	5.65	0.063	0.0	6.90	12.0	146	0.0	clear
0920	8.64	350	5.65	0.063	0.0	6.83	12.0	143	0.0	clear
0925	8.64	350	5.64	0.063	0.0	6.69	12.0	139	0.0	clear
0930	8.64	350	5.65	0.064	0.0	5.92	12.0	135	0.0	clear
0935	8.64	350	5.64	0.064	0.0	5.48	11.9	132	0.0	clear
0940	8.64	350	5.64	0.064	0.0	5.15	12.0	131	0.0	clear
0945	8.64	350	5.65	0.064	0.0	4.90	11.9	129	0.0	clear
0950	8.64	350	5.65	0.064	0.0	4.78	11.9	127	0.0	clear - collect sample

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW13D-20100921
Sample Location: Southern Area
Sampled By: BPS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10 / Time: 0830	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Method: Low Flow - peristaltic	Clear	6.18	0.105	11.9	0.0	0.22	0.0	-110

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow - peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 70'								
Static Water Level (WL): 7.86								
One Casing Volume(gal/L):								
Start Purge (hrs): 0740								
End Purge (hrs): 0830								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.75								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	Yes

OBSERVATIONS / NOTES:

- No odors, stains, or elevated PID readings observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112601655
WELL ID.: SA-MW-131D
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0735	7.86	-	-	-	-	-	-	-	-	Initial
0740	7.86	350	5.44	0.114	17.8	1.60	12.5	-42	0.0	clear
0745	7.86	350	5.57	0.113	14.2	0.96	12.3	-60	0.0	clear
0750	7.86	350	5.72	0.110	3.8	0.76	12.1	-76	0.0	clear
0755	7.86	350	5.78	0.110	1.0	0.52	12.1	-91	0.0	clear
0800	7.86	350	5.90	0.107	0.5	0.31	12.1	-89	0.0	clear
0805	7.86	350	5.95	0.105	0.0	0.26	12.0	-95	0.0	clear
0810	7.86	350	6.02	0.104	0.0	0.23	12.0	-98	0.0	clear
0815	7.86	350	6.08	0.105	0.0	0.22	11.9	-103	0.0	clear
0820	7.86	350	6.15	0.105	0.0	0.22	11.9	-108	0.0	clear
0825	7.86	350	6.17	0.105	0.0	0.22	11.9	-109	0.0	clear
0830	7.86	350	6.18	0.105	0.0	0.22	11.9	-110	0.0	clear

SIGNATURE(S): WAA

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-MW-132$-20100921
Sample Location: SA-MW-132$
Sampled By: JB
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0845	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.53	0.074	17.44	0.0	0.00	0.0	40

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 14								
Static Water Level (WL): 6.22								
One Casing Volume(gal/L):								
Start Purge (hrs): 0741								
End Purge (hrs): 0845								
Total Purge Time (min): 64								
Total Vol. Purged (gal/L): 5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	YES
MEE	HCl	2 40-mL clear glass vials	NO

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-132B
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0741	6.22									light brown
0743	6.23	320	6.09	0.134	39.3	9.90	16.60	20	0.0	Turb. from horiba LaMotte
0748	6.23	320	6.04	0.149	30.6	8.19	16.89	17	0.0	battery dead
0753	6.23	320	5.98	0.139	22.9	0.55	16.89	16	0.0	light brown tint
0758	6.23	320	5.91	0.121	22.9	0.24	17.19	21	0.0	swampy smell light brown tint
0808	6.23	300	5.76	0.097	22.1	1.74	17.33	32	0.0	Battery in horiba died
0813	6.23	300	5.76	0.103	0.0	1.80	17.43	32	0.0	clear
0818	6.23	300	5.75	0.088	0.0	0.75	17.44	30	0.0	clear
0823	6.23	300	5.68	0.082	0.0	0.26	17.40	31	0.0	clear
0828	6.23	300	5.63	0.080	0.0	0.18	17.39	33	0.0	clear
0833	6.23	300	5.59	0.077	0.0	0.16	17.38	36	0.0	clear
0838	6.23	300	5.54	0.075	0.0	0.04	17.42	37	0.0	clear
0843	6.23	300	5.53	0.074	0.0	0.00	17.44	40	0.0	clear
0845	Collect sample									

SIGNATURE(S): Frank Bakalt

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-132I-20100921
Sample Location: SA-MW-132I
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0942	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.49	0.108	14.83	0.0	0.00	0.0	-2

PURGE DATA:

Date: 9-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS							
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD): 37								
Static Water Level (WL): 6.23								
One Casing Volume(gal/L):								
Start Purge (hrs): 0854								
End Purge (hrs): 0942								
Total Purge Time (min): 48								
Total Vol. Purged (gal/L): 4 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655
WELL ID.: SA-MW-13 2I
DATE: 9-21-10

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0854	6.23									
0856	6.24	320	6.98	0.162	2.4	2.13	16.31	-61	0.0	clear
0901	6.24	320	7.03	0.172	2.5	0.18	15.59	-56	0.0	
0906	6.24	320	6.88	0.156	0.5	0.00	15.26	-29	0.0	
0911	6.24	320	6.72	0.131	0.2	0.00	15.14	-15	0.0	
0916	6.24	320	6.68	0.108	0.8	0.00	15.07	-6	0.0	
0921	6.24	320	6.57	0.106	0.0	0.00	14.98	-4	0.0	
0926	6.24	320	6.51	0.107	0.0	0.00	14.89	-3	0.0	
0931	6.24	320	6.50	0.106	0.0	0.00	14.86	-2	0.0	
0936	6.24	320	6.50	0.107	0.0	0.00	14.87	-2	0.0	
0941	6.24	320	6.49	0.108	0.0	0.00	14.83	-2	0.0	
0942	Collect sample									

SIGNATURE(S):

APPENDIX E
QA SAMPLE LOG SHEETS

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Recon Pad Area
QA Sample Type:

Sample ID Number: SA-RB01-01042010
Sampled By: VAS
C.O.C. Number: ___

[] Trip Blank
[] Source Water Blank
[X] Rinsate Blank
[] Other Blank ___

SAMPLING DATA:

Date: 4-1-10
Time: 0815
Method: Direct pour

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other ___
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: ___
Supplier: ___
Manufacturer: ___
Order Number: ___
Lot Number: ___
Expiration Date: ___

RINSATE INFORMATION (If Applicable):

Media Type: Aqueous
Equipment Used: stainless steel well screen
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 X 40 ml vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

- Water poured over cleaned 4' stainless steel Temporary well screen into sample vials.

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: CTO-WE08
Sample Location: Decon pad area
QA Sample Type:

Sample ID Number: RB-20100602
Sampled By: VAS
C.O.C. Number:

[] Trip Blank
[] Source Water Blank
[X] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-2-10
Time: 0715
Method: Direct pour

WATER SOURCE:

[] Laboratory Prepared
[X] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: Distilled Water
Supplier: King Kullen
Manufacturer: Crystal Springs
Order Number: -
Lot Number: -
Expiration Date: 3/24/12

RINSATE INFORMATION (If Applicable):

Media Type: Aqueous
Equipment Used: Temp. well screen
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 X 40 ml vials	YES / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

- Water poured over cleaned Temporary Well screen directly into Sample Vials

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: SA-RB-01-0618-2010
Sampled By: JB
C.O.C. Number:

[] Trip Blank
[X] Source Water Blank
[X] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-18-10
Time: 0735
Method: direct pour over equipment

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type: Water
Equipment Used: TW Screen point sampler
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL VOA vials	(YES) NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: SA-RB-02-06222010
Sampled By: JB
C.O.C. Number:

[] Trip Blank
[] Source Water Blank
[X] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-22-10
Time: 1410
Method: Direct pour over equipment

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type: Water
Equipment Used: Temporary well point screen
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vial	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: CTO-WE08
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: RB-20100629
Sampled By: Vince Shickora
C.O.C. Number: _____

[] Trip Blank
[] Source Water Blank
[X] Rinsate Blank
[] Other Blank _____

SAMPLING DATA:

Date: 6-29-10
Time: 1018
Method: Direct Pour

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other _____
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: Distilled Water
Supplier: Lab Supplied
Manufacturer: _____
Order Number: _____
Lot Number: _____
Expiration Date: _____

RINSATE INFORMATION (If Applicable):

Media Type: Aqueous
Equipment Used: Temp. Well screen
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 X 40 Ml Vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

- Water poured directly over cleaned Temporary well screen into sample vials.

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: ~~lab prepared~~ GP Site Trailer
QA Sample Type:

Sample ID Number: RB01-20100915
Sampled By: JB/VS
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[X] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 9-15-10
Time: 1655
Method: Direct pour

WATER SOURCE:

[] Laboratory Prepared
[] Purchased
[] Other Lab grade water in 1L amber From Lab
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type: groundwater
Equipment Used: Grundfos RediFlow (decon'ed)
Equipment Type:
[] Dedicated
[X] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vial	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112601655
Sample Location: Decon Pad area
QA Sample Type:

Sample ID Number: SA-SB01-01042010
Sampled By: VAS
C.O.C. Number: ___

[] Trip Blank
[] Rinsate Blank
[X] Source Water Blank
[] Other Blank ___

SAMPLING DATA:	WATER SOURCE:
Date: 4-1-10	[] Laboratory Prepared [] Tap
Time: 0800	[] Purchased [] Fire Hydrant
Method: Direct pour	[X] Other Drillers Decon water

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: ___	Media Type: ___
Supplier: ___	Equipment Used: ___
Manufacturer: ___	Equipment Type:
Order Number: ___	[] Dedicated
Lot Number: ___	[] Reusable
Expiration Date: ___	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 X 40 ml vials	(YES) NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

- Sample of Drillers decon water from potable water source at Zebra Env. office. Water stored onsite in Poly Tank located inside Rig Tender Box Truck.

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: CTO-WE08
Sample Location: Decon Pad Area
Sample ID Number: FB-20100603
Sampled By: VAS
C.O.C. Number: ___

QA Sample Type:

[] Trip Blank
[X] Source Water Blank
[] Rinsate Blank
[] Other Blank ___

SAMPLING DATA:	WATER SOURCE:
Date: 6-3-10	[] Laboratory Prepared [] Tap
Time: 0740	[] Purchased [] Fire Hydrant
Method: Direct pour	[X] Other Zebra Decon Water

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name:	Media Type:
Supplier:	Equipment Used:
Manufacturer:	Equipment Type:
Order Number:	[] Dedicated
Lot Number:	[] Reusable
Expiration Date:	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 x 40 ml vials	YES / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

- Sample of Drillers decon water obtained from public supply source at Zebra Inc. office

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: SA-FB-01-06182010
Sampled By: JB
C.O.C. Number:

[] Trip Blank
[X] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-18-10
Time: 0730
Method: Direct pour

WATER SOURCE:

[] Laboratory Prepared
[] Purchased
[X] Other Driller's decon water tank
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL VOA vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location:
QA Sample Type:

Sample ID Number: SA-FB01-20100921
Sampled By: VS
C.O.C. Number:

[] Trip Blank
[X] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 9-21-10
Time: 1015
Method: Direct pour

WATER SOURCE:

[] Laboratory Prepared
[] Purchased
[X] Other King of Prussia office
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location:
QA Sample Type:

Sample ID Number: SA-TB01-1603201O
Sampled By: Lab prepared
C.O.C. Number: 2614

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 3-16-10
Time: 0800
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40 ml VOA vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location:
QA Sample Type:

Sample ID Number: SA-TB02-16032010
Sampled By: Lab prepared
C.O.C. Number:

[X] Trip Blank
[] Rinsate Blank
[] Source Water Blank
[] Other Blank

SAMPLING DATA:	WATER SOURCE:
Date: 3-16-2010	[X] Laboratory Prepared
Time: 0800	[] Purchased
Method: Lab prepared	[] Other
	[] Tap
	[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name:	Media Type:
Supplier:	Equipment Used:
Manufacturer:	Equipment Type:
Order Number:	[] Dedicated
Lot Number:	[] Reusable
Expiration Date:	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL VOA vials	~~YES~~ / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: CTO-WE08
Sample Location: Decon Pad Area
QA Sample Type:

Sample ID Number: TB-20100601
Sampled By: Lab
C.O.C. Number: ___

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank ___

SAMPLING DATA:

Date: 5-26-10
Time: 0800
Method: Lab supplied

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other ___
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: ___
Supplier: ___
Manufacturer: ___
Order Number: ___
Lot Number: ___
Expiration Date: ___

RINSATE INFORMATION (If Applicable):

Media Type: ___
Equipment Used: ___
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 x 40 ml vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Laboratory supplied Trip Blank

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112GD1655
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: SA-TB-01-06112010
Sampled By: JB
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-11-10
Time:
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL VOA vials	YES / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: SA-TB-02-06112010
Sampled By: JB
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 6-11-2010
Time: 1200
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vial	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: Calverton
Project Number: 112G01655
Sample Location: Southern Area
QA Sample Type:

Sample ID Number: SA-TB-03-20100618
Sampled By: Lab
C.O.C. Number: ____

[X] Trip Blank
[] Rinsate Blank
[] Source Water Blank
[] Other Blank ____

SAMPLING DATA:	WATER SOURCE:
Date: 6-18-10	[X] Laboratory Prepared [] Tap
Time: 1200	[] Purchased [] Fire Hydrant
Method: Lab prepared	[] Other ____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: ____	Media Type: ____
Supplier: ____	Equipment Used: ____
Manufacturer: ____	Equipment Type:
Order Number: ____	[] Dedicated
Lot Number: ____	[] Reusable
Expiration Date: ____	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Colverton
Project Number: CTO-WE08
Sample Location: Southern Area
QA Sample Type:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank ____

Sample ID Number: TB-20100628
Sampled By: Lab supplied
C.O.C. Number: ____

SAMPLING DATA:		WATER SOURCE:	
Date:	6-28-10	[X] Laboratory Prepared	[] Tap
Time:	0830	[] Purchased	[] Fire Hydrant
Method:	Lab supplied	[] Other ____	

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):		RINSATE INFORMATION (If Applicable):	
Product Name:		Media Type:	
Supplier:		Equipment Used:	
Manufacturer:		Equipment Type:	
Order Number:			[] Dedicated
Lot Number:			[] Reusable
Expiration Date:			

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 x 40 ml vials	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: Calverton
Project Number: 112G01655
Sample Location:
QA Sample Type:

Sample ID Number: SA-TB-20100721
Sampled By: JB/VS
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 7-21-10
Time: 0600
Method: Lab Prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40 mL glass vial	(YES) / NO
Semivolatiles	Cool 4°C		YES / (NO)
Pesticide / PCB	Cool 4°C		YES / (NO)
Metals	Cool 4°C & HNO_3		YES / (NO)
Cyanide	Cool 4°C & NaOH		YES / (NO)

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Lab prepared
QA Sample Type:

Sample ID Number: TB01-20100914
Sampled By: Lab prepared
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 9-14-10
Time: 0800
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vial	(YES) NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location: Lab prepared
QA Sample Type:

Sample ID Number: TB02-20100915
Sampled By: LAB prepared
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 9-15-10
Time: 0800 JB 1430
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vial	YES / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location:
QA Sample Type:

Sample ID Number: TB03-20100920
Sampled By: JB
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 9-20-10
Time: 0800
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40-mL glass vial	(YES) / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G01655
Sample Location:
QA Sample Type:

Sample ID Number: TB04-20100922
Sampled By: Lab prepared/JB
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 9-22-10
Time: 0710
Method: Lab prepared

WATER SOURCE:

[X] Laboratory Prepared
[] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name:
Supplier:
Manufacturer:
Order Number:
Lot Number:
Expiration Date:

RINSATE INFORMATION (If Applicable):

Media Type:
Equipment Used:
Equipment Type:
[] Dedicated
[] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40mL glass vial	YES / NO
Semivolatiles	Cool 4°C		YES / NO
Pesticide / PCB	Cool 4°C		YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

APPENDIX F
CHAIN OF CUSTODY FORMS

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2614 | PAGE 1 OF 1

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PROJECT NO: 112G01655	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sak	PHONE NUMBER 757-466-4904
SAMPLERS (SIGNATURE) Jacob Birkett	(757) 466-4907 Southern Area	FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER 610-382-1528
		CARRIER/WAYBILL NUMBER Tracking # 1516-4340-0 8671-2882-9682	

LABORATORY NAME AND CONTACT: Compu Chem
ADDRESS: 501 Madison Ave
CITY, STATE: Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2010)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: TCL VOCs (40ml VOA glass vials)	COMMENTS
									G	HCl		
3-16	0800	SA-TB01-16032010				QC		3	3		1004020-02	lab prepared
3-31	0940	SA-PZ-137-20100331				GW	G	3	3		-03	
3-31	1100	SA-PZ-133I1-20100331				GW	G	3	3		-04	
3-31	1208	SA-PZ-133I-20100331				GW	G	3	3		-05	
3-31	1317	SA-PZ-134-20100331				GW	G	3	3		-06	
3-31	1448	SA-PZ-136-20100331				GW	G	3	3		-07	
3-31	1617	SA-PZ-135-20100331				GW	G	3	3		-08	
4-1	0944	SA-PZ-138-20100401				GW	G	3	3		-09	
4-1	1120	SA-PZ-139-20100401				GW	G	3 JBB	3 JBB		1004020-01	Run MS/MSD
3-31	1200	SA-Dup01-20100331				GW	G	3	3		1004020-10	

1. RELINQUISHED BY Jacob Birkett	DATE 4-1-10	TIME	1. RECEIVED BY Jennifer Dorer	DATE 4/2/10	TIME 0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: rec'd @ temp 3.4°C SN0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2634 | PAGE 1 OF 2

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PROJECT NO: 112G01655	FACILITY: NWIRP Calverton	PROJECT MANAGER: Rob Sak	PHONE NUMBER: 757-466-4904
SAMPLERS (SIGNATURE):		FIELD OPERATIONS LEADER: Vince Shickora	PHONE NUMBER: 610-382-1528
		CARRIER/WAYBILL NUMBER: Tracking # 8671-2382-9682	

LABORATORY NAME AND CONTACT: CompuChem
ADDRESS: 501 Madison Ave
CITY, STATE: Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: HCl
TYPE OF ANALYSIS: TCL VOCs 40 ml VOA vials

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS									COMMENTS
3-31	1015	SA-TW-324-1216		12	16	GW	G	3	3					1004025-02			
3-31	1058	SA-TW-324-3034		30	34	GW	G	3	3							-03	
3-31	1145	SA-TW-324-4549		45	49	GW	G	3	3							-04	
3-31	1348	SA-TW-323-1418		14	18	GW	G	3	3							-05	
3-31	1430	SA-TW-323-3034		30	34	GW	G	3	3							-06	
3-31	1525	SA-TW-323-5256		52	56	GW	G	3	3							-07	
3-31	1655	SA-TW-~~325~~ 330-1822		18	22	GW	G	3	3							-08	# Changed Sample from 325 to 330
3-31	1730	SA-TW-~~325~~ 330-3034		30	34	GW	G	3	3							-09	
3-31	~~1835~~ 1805	SA-TW-~~325~~ 330-5054		50	54	GW	G	3	3							-10	JB 9.30.10
4-1	0800	SA-SB01-01042010				QC		3	3							-11	Driller's Decon Water
4-1	0815	SA-RB01-01042010				QC		3	3							-12	DI poured over decon'd temp well screen
4-1	0918	SA-TW-320-1115		11	15	GW	G	3	3							-13	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Jacob Birkett	4-1-10		1. RECEIVED BY: Jennifer Dover	4/2/10	0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: rec'd @ temp 3.4°C SN0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2635 | PAGE 2 OF 2

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PROJECT NO: 112G01655	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sak	PHONE NUMBER 757-366-4904	LABORATORY NAME AND CONTACT: CompuChem
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER 610-382-1528	ADDRESS 501 Madison Ave.
		CARRIER/WAYBILL NUMBER Tracking # 8671-2882-9682		CITY, STATE Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: HCl
TYPE OF ANALYSIS: TCL VOCs 40ml vials

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TCL VOCs 40ml vials						COMMENTS
4-1	0955	SA-TW-320-3034		30	34	GW	G	9	9				1004025-01		Run MS MSD
4-1	1045	SA-TW-320-5155		51	55	GW	G	3	3				1004025-14		
4-1	1200	SA-TW-DUP02-0104240				GW	G	3	3					-15	
4-1	1210	SA-TW-321-1115		11	15	GW	G	3	3					-16	
4-1	1240	SA-TW-321-3034		30	34	GW	G	3	3					-17	
4-1	1326	SA-TW-321-4953		49	53	GW	G	3	3					-18	
4-1	1458	SA-TW-318-4650		46	50	GW	G	3	3					-19	

1. RELINQUISHED BY Jacob Birkett	DATE 4-1-10	TIME	1. RECEIVED BY Jennifer Dorn	DATE 4/2/10	TIME 0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: rec'd @ temp 3.4 °C SN0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

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CHAIN OF CUSTODY

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CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FED EX
Airbill No.: 8671 2882 9454
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech NUS	Project Name: NWIRP Calverton
Address:	Sampling Location: Southern Area
City: Norfolk State: VA Zip:	Turnaround time: 7 days
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: (757) 466-4904	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Vince Shickora	Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type): VOCs (40 ml vials)(3-40ml)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs	pH / Sample Info (Lab Use)
100042-02	TB-20100601	5/26/10	0800	QC	3	✓						3	
-03	SA-TW-333-1115	6/1/10	1120	AQ	3	✓						3	
-04	SA-TW-333-2125	6/1/10	1149	AQ	3	✓						3	
-05	SA-TW-333-3135	6/1/10	1233	AQ	3	✓						3	
-06	SA-TW-332-1115	6/1/10	1337	AQ	3	✓						3	
-07	SA-TW-332-2125	6/1/10	1400	AQ	3	✓						3	
-08	SA-TW-332-3135	6/1/10	1440	AQ	3	✓						3	
-09	RB-20100602	6/3/10	0715	AQ	3	✓						3	
-10	SA-TW-331-1115	6/3/10	0935	AQ	3	✓						3	
-11	SA-TW-331-2125	6/3/10	1008	AQ	3	✓						3	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: Kelly Doss
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 6-4-10 1200	Received by: Diane Dyrd	Date/Time: 6/5/10 1025
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FED Ex
Airbill No.: 8671 2882 9454
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech NUS	Project Name: NWIRP Calverton
Address:	Sampling Location: Southern Area
City: Norfolk State: VA Zip:	Turnaround time: 7 days
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: (757) 466-4904	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Vince Shickora	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis (include method and bottle type): VOCs (3-40ml) (40 ml Vials)	pH / Sample Info (Lab Use)
1006042-20	DUP-01-20100602	6/3/10	1200	AQ	3	✓						3	
1006042-01	SA-TW-331-3135	6/3/10	1040	AQ	9	✓						9	
-12	SA-TW-335-1115	6/3/10	1208	AQ	3	✓						3	
-13	SA-TW-335-2125	6/3/10	1235	AQ	3	✓						3	
-14	SA-TW-335-3135	6/3/10	1303	AQ	3	✓						3	
-15	SA-TW-336-1115	6/3/10	1535	AQ	3	✓						3	
-16	SA-TW-336-2125	6/3/10	1602	AQ	3	✓						3	
-17	SA-TW-336-3135	6/3/10	1627	AQ	3	✓						3	
-18	SA-TW-334-1115	6/3/10	0814	AQ	3	✓						3	
-19	SA-TW-334-2125	6/3/10	0840	AQ	3	✓						3	

Lab Use Only

Sample Unpacked By: K Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N - (KM 6.07.10)
If no, explain: (3) 3-40ml for SA-TW-336-1115/6.2.10 @ 1535 read SA-TW-335-1115/6.2.10 @ 1535, SA-TW-335-2125 on their labels.

Cyanide samples checked for sulfide & chlorine? Y or N (NA)
625 & Phenol samples checked for chlorine? Y or N (NA)
608 samples checked for pH between 5.0-9.0? Y or N (NA)

Comments

SA-TW-331-3135 Do MS/MSD
(1) 3-40ml for SA-TW-336-3135/6.2.10 @ 1627 read SA-TW-335-3135/6.2.10 @ 1627 on their labels.
(2) 3-40ml for SA-TW-336-2125/6.2.10 @ 1602 read

Sample Custody

Relinquished by:	Date/Time: 6-4-10 1200	Received by:	Date/Time: 6/5/10 1025
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.4 °C

Samples stored 60 days after date report mailed at no extra charge.

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CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.
501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

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Courier: FED EX
Airbill No.: 8671 2882 9454
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech NUS	Project Name: NWIRP Calverton
Address:	Sampling Location: Southern Area
City: Norfolk State: VA Zip:	Turnaround time: 7 days
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: (757) 466-4904	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Vince Shickora	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis (include method and bottle type): VOCs (3-40ml Vials)	pH / Sample Info (Lab Use)
1006043-02	SA-TW-334-3135	6/3/10	0936	AQ	3	✓						3	
-03	DUP-02-20100603	6/3/10	1200	AQ	3	✓						3	
-04	SA-TW-339-1115	6/3/10	1110	AQ	3	✓						3	
-05	SA-TW-339-2125	6/3/10	1137	AQ	3	✓						3	
-06	SA-TW-339-3135	6/3/10	1205	AQ	3	✓						3	
-07	SA-TW-338-1115	6/3/10	1328	AQ	3	✓						3	
-08	SA-TW-338-2125	6/3/10	1354	AQ	3	✓						3	
1006043-09	SA-TW-338-3135	6/3/10	1423	AQ	9	✓						9	
-09	DUP-03-2010060	6/3/10	1600	AQ	3	✓						3	
-10	SA-TW-337-1115	6/3/10	1640	AQ	3	✓						3	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: [illegible] 6/4/10
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N/A
625 & Phenol samples checked for chlorine? Y or N/A
608 samples checked for pH between 5.0-9.0? Y or N/A

Comments

SA-TW-338-3135 Do MS/MSD
03-40ml for DUP-03-20100603/6.3.10@1600
read DUP-03-20100603/6.3.10@1600 on their labels. (KM-6.07.10)

Sample Custody

Relinquished by: [signature]	Date/Time: 6-4-10 1200	Received by: Orion Byrd	Date/Time: 6/5/10 1025
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 2.4 °C

Samples stored 60 days after date report mailed at no extra charge.

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CHAIN OF CUSTODY

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CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FED EX
Airbill No.: 8671 2892 9454
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech NUS	Project Name: NWIRP Calverton
Address:	Sampling Location: Southern Area
City: Norfolk State: VA Zip:	Turnaround time: 7 days
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: (757) 466-4904	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Vince Shickora	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID (VAS)	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOCs (3-40ml Vials) (40 ml Vials)	pH / Sample Info (Lab Use)
~~SA-TW-337-2125~~			AQ										
1006043-11	SA-TW-337-2125	6/3/10	1546	AQ	3	✓						3	
-12	SA-TW-337-3135	6/3/10	1613	AQ	3	✓						3	
-13	FB-20100603	6/3/10	0740	AQ	3	✓						3	

Lab Use Only

Sample Unpacked By: K. Spanning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (N/A)
625 & Phenol samples checked for chlorine? Y or (N/A)
608 samples checked for pH between 5.0-9.0? Y or (N/A)

Comments

Sample Custody

Relinquished by:	Date/Time: 6-4-10 1200	Received by: Diane Dyal	Date/Time: 6/5/10 1025
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.4 °C

Samples stored 60 days after date report mailed at no extra charge.

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TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2616 | PAGE 1 OF 1

PROJECT NO: 112G01655	FACILITY: NWIRPCalverton	PROJECT MANAGER Rob Sok	PHONE NUMBER 757-466-4904	LABORATORY NAME AND CONTACT: CompuChem
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER 610-382-1528	ADDRESS 501 Madison Ave.
		CARRIER/WAYBILL NUMBER Tracking # 8671-2882-9660		CITY, STATE Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID.	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: HCl	TYPE OF ANALYSIS: TCL VOCs 3-40ml VOA vials	COMMENTS: KM 04-05-10 Rec'd @ 2.3°C
3-16	0800	SA-TB02-16032010				QC		3	3		10032020-11	lab prepared
4-1	1640	SA-TW-319-3842		38	42	GW		3	3		-12	
4-1	1718	SA-TW-319-4549		45	49	GW		3	3		-13	
4-2	0920	SA-TW-322-1115		11	15	GW		3	3		-14	
4-2	0947	SA-TW-322-2630		26	30	GW		3	3		-15	
4-2	1023	SA-TW-322-3842		38	42	GW		3	3		-16	
4-2	1103	SA-TW-322-4549		45	49	GW		3	3		-17	
4-2	1200	SA-TW-DUP03-02042010		—	—	GW		3	3		-18	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4-2-10	1300	1. RECEIVED BY K. Manning	04-05-10	0915
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS SW0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

22049

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CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (include method and bottle type)	Matrices
Company Name: Tetra Tech NUS	Project Name: NWIRP Calverton		GW - Ground water
Address: 5700 Lake Wright Dr; Suite 301	Sampling Location: Southern Area		WW - Waste water
City: Norfolk State: VA Zip: 23502	Turnaround time: Normal		SW - Surface water
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?		SO - Soil/Sediment
Phone #: 757-466-4904	Are aqueous samples field filtered for metals? Y or (N)		TB - Trip Blank
Sampler's Name: Jacob Birkett	Are high concentrations expected? Y or N? If yes, which ID(s)?		RI - Rinsate
			WP - Wipe
			O - Other

CompuChem No (Lab Use)	Field ID	Collection: Date	Collection: Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B 40mL VOA vials	pH / Sample Info (Lab Use)
1006141-02	SA-TB-01-06112010	6-11-10	1200	TB	3	3						3	
-03	SA-TW-328-0812	6-17-10	1649	GW	3	3						3	
-04	SA-TW-328-2327	6-17-10	1637	GW	3	3						3	
-05	SA-TW-328-36-40	6-17-10	1602	GW	3	3						3	
-06	SA-FB-01-06182010	6-18-10	0730	QA	3	3						3	
-07	SA-RB-01-06182010	6-18-10	0735	QA	3	3						3	
-08	SA-TW-329-1014	6-18-10	1025	GW	3	3						3	
-09	SA-TW-329-2630	6-18-10	1058	GW	3	3						3	
1006141-01	SA-TW-329-4044	6-18-10	1126	GW	9	9						9	
-10	SA-TW-326-1822	6-18-10	1330	GW	3	3						3	

Lab prepared

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 6-18-10 1600	Received by: FedEx	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time: 6.19.10 1040
Subcontact? Y or (N) If yes, where?	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 2.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SW6010

21883

Page 2 of 2

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CHAIN OF CUSTODY

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech
Address: 5700 Lake Wright Dr. Suite 309
City: Norfolk State: VA Zip: 23502
Project Contact: Rob Sak
Phone #: 757-466-4904
Sampler's Name: Jacob Birkett

Project Information

Project Name: NWIRP Calv
Sampling Location: S. Area
Turnaround time: Normal
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Requested Analysis (include method and bottle type)

VOCs 8260B 40 mL VOA vials

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B 40 mL VOA vials	pH / Sample Info (Lab Use)
1006141-11	SA-TW-326-3236	6-13-10	1355	GW	3	3						3	
↓ -12	SA-TW-326-4246	6-13-10	1500	GW	3	3						3	

Lab Use Only

Sample Unpacked By: Dwayne Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 6-13-10 1600	Received by: FedEx	Date/Time:
Relinquished by:	Date/Time:	Received by: Joan Purdie	Date/Time: 6.14.10 1040
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 2.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SW8010

22048

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CHAIN OF CUSTODY

Page 1 of 1

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FedEx
Airbill No.: 8689 3778 3727
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech
Address: 5700 Lake Wright Dr. Suite 309
City: Norfolk State: VA Zip: 23502
Project Contact: Rob Sak
Phone #: 757-466-4904
Sampler's Name: Jacob Birkett

Project Information

Project Name: NWIRP Calverton
Sampling Location: Southern Area
Turnaround time: Normal
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 8260B 40 mL VOA vial	pH / Sample Info (Lab Use)
1006205-01	SA-TB-02-06112010	6-11-10	1200	TB	3	3						3	Lab prepared
-02	SA-TW-325-1822	6-21-10	1027	GW	3	3						3	
-03	SA-TW-325-3236	6-21-10	1107	GW	3	3						3	
-04	SA-TW-325-5054	6-21-10	1558	GW	3	3						3	
-05	*SA-TW-317-4145	6-22-10	1238	GW	3	3						3	
-06	*SA-TW-317-2630	6-22-10	1306	GW	3	3						3	
-07	*SA-TW-317-1014	6-22-10	1331	GW	3	3						3	
-08	SA-RB-02-06222010	6-22-10	1410	QC	3	3						3	Rinsate blank w/ lab water
-09	SA-Dup-01-06222010	6-22-10	1200	GW	3	3						3	

Lab Use Only

Sample Unpacked By: Diana Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

* All sample labels for COC ID SA-TW-317... read as SA-TW-327... DB 6/24/10

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 6-23-10	Received by: FedEx		Date/Time:	
Relinquished by:	Date/Time:	Received by: Diana Byrd		Date/Time: 6/24/10 0916	
Subcontact? Y or (N) If yes, where?		Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 2.5 °C	

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

No 906832

Page 1 of 2

CHAIN OF CUSTODY

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 8689 3778 3554
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech NUS
Address: 5700 Lake Wright Dr. Suite 309
City: Norfolk State: VA Zip: 23502
Project Contact: Rob Sok
Phone #: 757-618-2104
Sampler's Name: Jacob Birkett, Chris Fridk, Vince Shickora

Project Information

Project Name: NWIRP Calverton Off-site Southern Area 1N2G01655
Sampling Location: Off site Southern Area
Turnaround time: Normal
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID (* sample times recorded by lab personnel DB 7/01/10)	Collection Date	Collection Time*	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOCs 40mL glass Vials	Comments
1007009-02	SA-TB-03-20100618	6-18-10	1200	TB	3	3						3	Lab prepared
-03	SA-TW-345	6-28-10	1000	GW	3	3						3	*sample time 1358 @ 7/1/10 1013 7/1/10
-04	SA-PZ-144S-20100629	6-29-10	1257	GW	3	3						3	
-05	SA-PZ-144I-20100629	6-29-10	1316	GW	3	3						3	
-06	SA-PZ-142-20100629	6-29-10	1511	GW	3	3						3	
-07	SA-PZ-143-20100629	6-29-10	1522	GW	3	3						3	
1007009-01	SA-PZ-140-20100630	6-30-10	*	GW	9	9						9	* sample time Run MS/MSD
-08	SA-PZ-145D-20100630	6-30-10	*	GW	3	3						3	1145
-09	SA-PZ-145I-20100630	6-30-10	*	GW	3	3						3	1117
-10	SA-PZ-145S-20100630	6-30-10	*	GW	3	3						3	1210

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

* Missing sample times on COC for the samples marked with an "*" (asterisk) on COC in the sample time fields; sample times are present on all 40mls received. See COC # 22100 for sample times on all 40 mL vials.

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 6-30-10	Received by: K. Manning	Date/Time: 7/01/10 0710
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

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CHAIN OF CUSTODY

Page 2 of 2

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 8639 3778 3554
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech NUS
Address: 5700 Lake Wright Dr. Suite 309
City: Norfolk State: VA Zip: 23502
Project Contact: Rob Sok
Phone #: 757-671-2104
Sampler's Name: Jacob Birkett, Chris Ferdik, Vince Shickora

Project Information

Project Name: NWIRP Calverton 112601655
Sampling Location: Off site Southern Area
Turnaround time: Normal
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID (* sample time recorded by lab personnel. DB 7/01/10)	Collection Date	Collection Time*	Matrix	#of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOCs 40mL glass vial	pH / Sample Info (Lab Use)
1007009-11	SA-Dup-02-20100630	6-30-10	1200	GW	3	3						3	
-12	SA-PZ-141-20100630	6-30-10	*	GW	3	3						3	*sample time 1358 7/1/10

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

*Sample times are as follows: SA-PZ-140-20100630 is 0927; SA-PZ-145D-20100630 is 1058; SA-PZ-145I-20100630 is 1102; SA-PZ-145S-20100630 is 1210; SA-PZ-141-20100630 is 1358. — KM 7/01/10

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 6-30-10	Received by: K. Manning	Date/Time: 7/01/10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

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CHAIN OF CUSTODY

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CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FED EX
Airbill No.: 8671 2882 9649
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	Tetra Tech NUS	Project Name	NWIRP Calverton
Address	Twin Oaks I, Suite 309	Sampling Location	Southern Area
City / State / Zip	Norfolk / VA / 23508	Turnaround time	
Project Contact	Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #	(757) 466-4904	Are aqueous samples field filtered for metals? Y or N	
Sampler's Name	Vince Shickora	Are high concentrations expected? Y or N? If yes, which ID(s)?	

Requested Analysis (include method and bottle type): VOC's (3-40ml)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOC's (3-40ml)	pH / Sample Info (Lab Use)
1007010-02	TB-20100628	6/28/10	0800	TB	3	✓						3	
-03	SA-TW-342-1115	6/29/10	0946	GW	3	✓						3	
-04	SA-TW-342-2125	6/29/10	0909	GW	3	✓						3	
-05	SA-TW-342-3135	6/29/10	0948	GW	3	✓						3	
-06	DUP-20100629	6/29/10	1200	GW	3	✓						3	
1007010-01	SA-TW-342-4145	6/29/10	1053	GW	9	✓						9	
-07	SA-TW-341-1115	6/29/10	1155	GW	3	✓						3	
-08	RB-20100629	6/29/10	1018	RW	3	✓						3	
-09	SA-TW-341-2125	6/29/10	1228	GW	3	✓						3	
-10	SA-TW-341-3135	6/29/10	1304	GW	3	✓						3	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Do MS/MSD on SA-TW-342-4145

Sample Custody

Relinquished by:		Date/Time: 6-30-10 1745	Received by: K. Manning	Date/Time: 7/01/10 0910	
Relinquished by:		Date/Time:	Received by:	Date/Time:	
Subcontact? Y or (N) If yes, where?		Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.4	°C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

21886

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.
501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FED EX
Airbill No.: 8671 2882 9649
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech NUS
Address: Twin Oaks I, Suite 309
City: Norfolk State: VA Zip: 23508
Project Contact: Rob Sok
Phone #: (757) 466-4904
Sampler's Name:

Project Information

Project Name: NWIRP Calverton
Sampling Location: Southern Area
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOC's (3-40ml)	pH / Sample Info (Lab Use)
1007010-11	SA-TW-341-4145	6/29/10	1351	GW	3	✓						3	
-12	SA-TW-343-1115	6/29/10	1512	GW	3	✓						3	
-13	SA-TW-343-2125	6/29/10	1537	GW	3	✓						3	
-14	SA-TW-343-3135	6/29/10	1606	GW	3	✓						3	
-15	SA-TW-343-4145	6/29/10	1659	GW	3	✓						3	
-16	SA-TW-344-1115	6/30/10	0924	GW	3	✓						3	
-17	SA-TW-344-2125	6/30/10	0950	GW	3	✓						3	
-18	SA-TW-344-3135	6/30/10	1020	GW	3	✓						3	
-19	SA-TW-344-4145	6/30/10	1118	GW	3	✓						3	
1007011-01	SA-TW-340-2125	6/30/10	1220	GW	3	✓						3	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N (NA)
625 & Phenol samples checked for chlorine? Y or N (NA)
608 samples checked for pH between 5.0-9.0? Y or N (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 6-30-10 1745	Received by: K. Manning	Date/Time: 7/01/10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.4' °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SNC010

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21884

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.
501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FED EX
Airbill No.: 8671 2882 9649
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech NUS
Address: Twin Oaks I, Suite 309
City: Norfolk State: VA Zip: 23508
Project Contact: Rob Sok
Phone #: (757) 466-4904
Sampler's Name: Vince Shickora

Project Information

Project Name: NWIRP Calverton
Sampling Location: Southern Area
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

VOCs (3-40ml)

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

pH / Sample Info (Lab Use):

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs (3-40ml)
1007011-02	SA-TW-340-3135	6/30/10	1248	GW	3	✓						3
-03	SA-TW-340-4145	6/30/10	1342	GW	3	✓						3
-04	SA-TW-335-4145	6/30/10	1445	GW	3	✓						3
-05	DUP-20100630	6/30/10	1600	GW	3	✓						3

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 6-30-10 1745	Received by: K. Manning	Date/Time: 7/01/10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

TETRA TECH NUS, INC. CTO-160 CHAIN OF CUSTODY | NUMBER 27290 | PAGE 1 OF 2

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PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01655	NWIRP Calverton	Rob Sak	757-618-2104	Compu Chem Cathy Dover
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Jacob Birkett		Vince Shickora	610-909-3264	501 Madison Av.
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		Fed Ex		Cary, NC 27513

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		COMMENTS
									TYPE OF ANALYSIS: VOCs 40 mL vial	VOCs 4 oz jar	HCl	NA	Rec'd. @ 2.4°C
7-21	0600	SA-TB-20100721	—	—	—	QC	—	3					one vial received cracked. Lab prepared 1007123-02
7-21	1203	SA-SD-124,000.5-20100721	—	0	0.5	SO	G	1		1			7/21/10 1007125-02
7-21	~~1203~~ 1108	SA-SD-125-000.5-20100721	—	0	0.5	SO	G	1		1			-03
7-21	1236	SA-SD-201-000.5-20100721	—	0	0.5	SO	G	1		1			container time is 12:21 7/21/10 -04
7-21	0735	SA-SD-204-000.5-20100721	—	0	0.5	SO	G	2		2			container time = 7:40 correct Run MSMSD 1007125-01
7-21	1201	SA-SW-124-20100721	—	—	—	SW	G	3		3			1007123-03
7-21	1112	SA-SW-125-20100721	—	—	—	SW	G	~~0~~		~~0~~ JB			(3 vials) -04
7-21	1232	SA-SW-201-20100721	—	—	—	SW	G	3	3	3			-05
7-21	0740	SA-SW-204-20100721	—	—	—	SW	G	9 JB	9 JB				0735 time per Rob Run MSMSD 1007123-01
7-21	1152	SA-PZ-124-20100721	—	—	—	GW	G	~~3~~ 9 JB	~~3~~ 9 JB				Run MSMSD 1007124-01
7-21	1100	SA-PZ-125-20100721	—	—	—	GW	G	~~3~~ 3	~~3~~ 3				Run MSMSD JB 1007124-02
7-21	1220	SA-PZ-146-20100721	—	—	—	GW	G	3	3				-03
7-21	1130	SA-PZ-147-20100721	—	—	—	GW	G	3	3				-04

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Jacob Birkett	7-21-10	1300	1. RECEIVED BY FedEx		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY K. Manning	9-22-10	0905
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 6N0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CTO-160 CHAIN OF CUSTODY | NUMBER 2617 | PAGE 2 OF 2

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PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01655	NWIRP Calverton	Rob Sok	757-618-2104	Compu Chem Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Jacob Birkett		Vince Shickora	610-909-3264	501 Madison Av.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FedEx		Cary NC 27513

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS							COMMENTS
									G	G		HCl	NA							
									VOCs 40mL glass vial	VOCs 4 oz glass jar										Rec'd. @ 2.4°C
7-21	1200	SA-SD-Dup01-20100721	—	—	—	SO	G	1		1										1007125-05
7-21	1200	SA-SW-Dup01-20100721	—	—	—	SW	G	3	3											1007123-06
7-21	1200	SA-PZ-Dup01-20100721	—	—	—	GW	G	3	3											1007124-05

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Jacob Birkett	7-21-10	1300	1. RECEIVED BY FedEx		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY L. Manning	7-22-10	0905
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS SN0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2625 | PAGE 1 OF 3

PROJECT NO: 112G02045	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 466-4904	LABORATORY NAME AND CONTACT: Compuchem Labs
SAMPLERS (SIGNATURE) Vince Shickora		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Ave
		CARRIER/WAYBILL NUMBER FEDEX # 9706 9629 3302		CITY, STATE Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2010)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: HCl	TYPE OF ANALYSIS: VOCs (40 ml vials)							COMMENTS
9/7	1018	SA-TW351-1115		11'	15'	GW	G	3	3								1009071-01	
9/7	0800	SA-TB-20100907 *		-	-	QC	G	3	3								1009071-02	Trip Blank
9/7	1038	SA-TW351-2125		21'	25'	GW	G	3	3								03	
9/7	1200	SA-TWDUP01-20100907 **		-	-	GW	G	3	3								04	
9/7	1105	SA-TW351-3135		31'	35'	GW	G	3	3								05	
9/7	1153	SA-TW351-4145		41'	45'	GW	G	3	3								06	
9/7	1245	SA-TW346-1115		11'	15'	GW	G	3	3								07	
9/7	1309	SA-TW346-2125		21'	25'	GW	G	3	3								08	
9/7	1335	SA-TW346-3135		31'	35'	GW	G	9	9								09	Do MS/MSD
9/7	1430	SA-TW346-4145		41'	45'	GW	G	3	3								10	
9/7	1526	SA-TW350-1115		11'	15'	GW	G	3	3								11	
9/7	1549	SA-TW350-2125		21'	25'	GW	G	3	3								12	
9/7	1610	SA-TW350-3135		31'	35'	GW	G	3	3								13	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-9-10	1740	1. RECEIVED BY Diane Dyal	9/10/10	1210
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS Rec'd @ 1.9°C SN0010 *SA-TB-20100907 1 vial has > pea size air bubble and 1 vial has < pea size air bubble.
** Sample label reads ID as SA-TWDUP1-20100907

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2626 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02045	NWIRP Calverton	Rob SoK	(757) 466-4904	Compuchem Labs
SAMPLERS (SIGNATURE) Vince Shickora		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Ave.
		CARRIER/WAYBILL NUMBER FED Ex # 8706 9629 3302		CITY, STATE Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: HCl	TYPE OF ANALYSIS: VOCs (40 ml vials)						COMMENTS
9/7	1635	SA-RB01-20100907		—	-	QC	G	3	3							1009071-14	
9/8	1009	SA-TW352-1620		16'	20'	GW	G	3	3							1009071-15	TMM 9/10/10
9/8	1040	SA-TW352-2630		26'	30'	GW	G	3	3							1009071-16	
9/8	1200	SA-TWDUP02-20100908		—	-	GW	G	3	3							1009071-17	
9/8	1105	SA-TW352-3640		36'	40'	GW	G	3	3							1009071-18	
9/8	1115	SA-SB01-20100908		—	-	QC	G	3	3							1009071-19	
9/8	1218	SA-TW353-1620		16'	20'	GW	G	3	3							1009071-20	
9/8	1240	SA-TW353-2630		26'	30'	GW	G	3	3							1009071-21	
9/8	1303	SA-TW353-3640		36'	40'	GW	G	3	3							1009073-01	
9/8	1435	SA-TW354-1620		16'	20'	GW	G	3	3							02	
9/8	1505	SA-TW354-2630		26'	30'	GW	G	3	3							03	
9/8	1525	SA-TW354-3640		36'	40'	GW	G	9	9							04	Do MS/MSD
9/8	1630	SA-TW356-1620		16'	20'	GW	G	3	3							05	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-9-10	1740	1. RECEIVED BY Diane Byrd	09/10/10	1210
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS Rec'd @ 1.9°C SN0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2627 | PAGE 3 OF 3

PROJECT NO: 112G02045	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 466-4904
SAMPLERS (SIGNATURE) Vince Shickota		FIELD OPERATIONS LEADER Vince Shickota	PHONE NUMBER (610) 909-3264
		CARRIER/WAYBILL NUMBER FED EX # 8706 9629 3302	

LABORATORY NAME AND CONTACT: Compuchem Labs
ADDRESS: 501 Madison Ave
CITY, STATE: Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2010)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: HCl	TYPE OF ANALYSIS: VOCs (40 ml vials)	COMMENTS
9/8	1710	SA-TW356-2630		26'	30'	GW	G	3	3			1009073-06
9/8	1733	SA-TW356-3640		36'	40'	GW	G	3	3			07
9/9	1039	SA-TW349-1115		11'	15'	GW	G	3	3			08
9/9	1058	SA-TW349-2125		21'	25'	GW	G	3	3			09
9/9	1124	SA-TW349-3135		31'	35'	GW	G	3	3			10
9/9	1220	SA-TW347-1115		11'	15'	GW	G	3	3			11
9/9	1243	SA-TW347-2125		21'	25'	GW	G	3	3			12
9/9	1309	SA-TW347-3135		31'	35'	GW	G	3	3			13
9/9	1600	SA-TWDUP03-20100909		—	—	GW	G	3	3			14
9/9	1444	SA-TW348-1115		11'	15'	GW	G	3	3			15
9/9	1504	SA-TW348-2125		21'	25'	GW	G	3	3			16
9/9	1526	SA-TW348-3135		31'	35'	GW	G	3	3			17

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-9-10	1740	1. RECEIVED BY Diane Dyal	09/10/10	1210
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS Rec'd @ 1.9°C SN0010

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2628 | PAGE 1 OF 1

PROJECT NO: 112G02045	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 466-4904	LABORATORY NAME AND CONTACT: Compuchem Labs
SAMPLERS (SIGNATURE) Vince Shickora		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Avenue
		CARRIER/WAYBILL NUMBER FED EX # 8706 9629 3313		CITY, STATE Cary NC 27513

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2010	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: VOCs (40 ml vials) HCl	CONTAINER TYPE PLASTIC (P) or GLASS (G) G	PRESERVATIVE USED							COMMENTS
9/10	0730	SA-TB-20100910		-	-	QC	G	3	3					100907	B-18			Trip Blank
9/10	1058	SA-TW355-1620		16'	20'	GW	G	3	3						-19			
9/10	1115	SA-TW355-2630		26'	30'	GW	G	3	3						-20			
9/10	1138	SA-TW355-3640		36'	40'	GW	G	3	3						-21			
9/10	0915	SA-TW357-1620		16'	20'	GW	G	3	3					100	9091	-01		
9/10	0943	SA-TW357-2630		26'	30'	GW	G	3	3							02		
9/10	1003	SA-TW357-3640		36'	40'	GW	G	3	3							03		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-10-10	1330	1. RECEIVED BY Jan Purdie	9.11.10	1040
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * one of the 3 trip blanks received contains a >pea size bubble. - km 9/13/10 2.20C SN0015

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

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CompuChem
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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 8706-9629-3460
Sampling Complete? Y. or (N)

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling Event
Address: 5700 Lake Wright Dr	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett and Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOCs 40 ml	MEE 40 ml	pH / Sample Info (Lab Use)
1009182-02	TB01-20100914	9-14-10	0800	TB	3	3						3		
-03	FT-MW-05$-20100914	9-14-10	0910	GW	5	5						3	2	
-04	FT-MW-08$-20100914	9-14-10	0916	GW	5	5						3	2	
-05	FT-MW-08I-20100914	9-14-10	1011	GW	5	5						3	2	
-06	FT-MW-05I-20100914	9-14-10	1015	GW	5	5						3	2	
-11	FT-MW-07$-20100914	9-14-10	1135	GW	3	3						3		
1009182-01	FT-MW-06I-20100914	9-14-10	1218	GW	9	9						9		
-12	FT-MW-04-20100914	9-14-10	1305	GW	3	3						3		
-13	FT-MW-06$-20100914	9-14-10	1325	GW	3	3						3		
1009182-07	FT-MW-02I-20100914	9-14-10	1425	GW	5	5						3	2	

Requested Analysis (include method and bottle type): RUN MSMSD

Lab Use Only

Sample Unpacked By: Diane Beyer
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-15-10 1500	Received by: Diane Beyer	Date/Time: 9/16/10 0914
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 5.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN005

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

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Page 2 of 3

Courier FedEx
Airbill No. 8706-9629-3460
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW sampling
Address: 5700 Lake Wright Dr. Suite 309	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sak	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-518-2104	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Jacob Birkett and Vince Shickora	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOCs 40 ml	MEE 40 ml	pH / Sample Info (Lab Use)
1009182-14	FT-MW-03-20100914	9-14-10	1459	GW	3	3						3		
1009182-08	FT-MW-02S-20100914	9-14-10	1540	GW	5	5						3	2	
-15	FT-MW-01I-20100914	9-14-10	1620	GW	3	3						3		
-16	FT-MW-01S-20100914	9-14-10	1724	GW	3	3						3		
-17	FT-Dup01-20100914	9-14-10	1800	GW	3 ~~5~~ [1B]	3 ~~5~~ [1B]						3	2 [1B] 0	
-18	FC-MW-04S-20100915	9-15-10	0845	GW	3	3						3		
-19	FC-MW-01I-20100915	9-15-10	0849	GW	3	3						3		
-20	FC-MW-01S-20100915	9-15-10	0938	GW	3	3						3		
-21	FC-MW-04I-20100915	9-15-10	0945	GW	3	3						3		
1009183-01	FC-MW-08S-20100915	9-15-10	1055	GW	3	3						3		

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

FC-MW-08S-20100915 1 of 3 vials has < pea size bubble. DB 9/16/10

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-15-10 1500	Received by: Diane Byrd	Date/Time: 9/16/10 0914
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 5.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

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CompuChem
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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 8706-9629-3460
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-68-2104	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Jacob Birkett and Vince Shickora	Are high concentrations expected? Y or N If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: 40ml VOC	40ml MEE	pH / Sample Info (Lab Use)
1009182-09	FC-MW-02S-20100915	9-15-10	1115	GW	5	5						3	2	
1009183-02	FC-MW-07I-20100915	9-15-10	1201	GW	3	3						3		
1009182-10	FC-MW-02I-20100915	9-15-10	1240	GW	5	5						3	2	
1009183-03	FC-MW-07S-20100915	9-15-10	1255	GW	3	3						3		
V -04	FC-Dup02-20100915	9-15-10	1200	GW	3	3						3		

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-15-10 1500	Received by: Diane Byrd	Date/Time: 9/16/10 0914
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 5.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

22608

CHAIN OF CUSTODY

Page 1 of 3

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 3706-9629-3450
Sampling Complete? Y or (N)

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett Vince Shickora	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC	MEE								pH / Sample Info (Lab Use)
1009183-08	TB02-20100915	9-15-10	1430	TB	3	3						3			Lab prepared						
-09	FC-MW-03S-20100915	9-15-10	1445	GW	5	5						3	2								
-10	FC-MW-05I-20100915	9-15-10	1526	GW	5	5						3	2								
-11	FC-MW-06S-20100915	9-15-10	1555	GW	3	3						3									
-12	FC-MW-05S-20100915	9-15-10	1617	GW	5	5						3	2								
-13	RB01-20100915	9-15-10	1655	RI	3	3						3									
1009207-01	ET-MW-03S-20100916	9-16-10	0825	GW	3	3						3									
1009183-20	SA-MW-130I-20100916	9-16-10	0842	GW	3	3						3									
1009207-02	ET-MW-02S-20100916	9-16-10	0925	GW	3	3						3									
1009183-21	SA-MW-130S-20100916	9-16-10	0934	GW	3	3						3									

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-17-10	Received by: Jennifer Does	Date/Time: 9/18/10 1120
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.6 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0010

CHAIN OF CUSTODY

(1)

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FedEx
Airbill No.: 8706-9629-3450
Sampling Complete? Y or (N)

Client/Reporting Information

Company Name: Tetra Tech
Address: 5700 Lake Wright Dr.
City: Norfolk State: VA Zip: 23502
Project Contact: Rab Sok
Phone #: 757-618-2104
Sampler's Name: Jacob Birkett Vince Shickora

Project Information

Project Name: NWIRP Calverton Annual GW Sampling
Sampling Location: Calverton, NY
Turnaround time: Standard
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC	MEE	pH / Sample Info (Lab Use)
1009207-03	ET-MW-01S-20100916	9-16-10	1030	GW	3	3						3		
1009183-07	SA-MW-126D-20100916	9-16-10	1110	GW	3	3						3		
-14	SA-MW-127D-20100916	9-16-10	1150	GW	5	5						3	2	
1009183-06	SA-MW-126S-20100916	9-16-10	1201	GW	3	3						3		
1009183-05	SA-MW-126I-20100916	9-16-10	1254	GW	3 (9-17-10 JB)	3 (9-17-10 JB)					9-17-10 JB	3		Run MSMSD
-15	SA-MW-127I-20100916	9-16-10	1320	GW	5	5						3	2	
-16	SA-MW-127S-20100916	9-16-10	1430	GW	5	5						3	2	
-17	SA-MW-128D-20100916	9-16-10	1451	GW	3	3						3		
-18	SA-MW-128S-20100916	9-16-10	1545	GW	3	3						3		
-19	SA-MW-129D-20100916	9-16-10	1550	GW	3	3						3		

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-17-10	Received by: Jennifer Doer	Date/Time: 9/18/10 1120
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.6 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0010

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CompuChem
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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 8706-9629-3450
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Sta. Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757 - 618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett and Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC	MEE	pH / Sample Info (Lab Use)
1009207-04	SA-Dup03-20100916	9-16-10	1800	GW	3	3						3		
-05	SA-MW-128I-20100917	9-17-10	0840	GW	3	3						3		
-06	SA-MW-129I-20100917	9-17-10	0835	GW	3	3						3		
-07	SA-MW-129S-20100917	9-17-10	0945	GW	3	3						3		
-08	SA-PZ-166I-20100917	9-17-10	1005	GW	3	3						3		

Lab Use Only

Sample Unpacked By: K. Mason
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-17-10	Received by: Jennifer Doer	Date/Time: 9/18/10 1120
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.6 °C

Samples stored 60 days after date report mailed at no extra charge.

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22521

CHAIN OF CUSTODY

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: Fed Ex
Airbill No.: 8706 9629 3449
Sampling Complete? Y or (N)

Client/Reporting Information

Company Name: Tetra Tech
Address: 5700 Lake Wright Dr.
City: Norfolk State: VA Zip: 23502
Project Contact: Rob Sok
Phone #: 757-618-2104
Sampler's Name: Jacob Birkett Vince Shickora

Project Information

Project Name: NWIRP Calverton Annual GW Sampling
Sampling Location: Calverton, NY
Turnaround time: Standard
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC 40ml Vials w/HCl	MEE 40ml vials w/HCl								pH / Sample Info (Lab Use)
1009207-09	TB03-20100920	9-20-10	0800	TB	3	3						3			Lab Prepared						
1009221-01	SA-PZ-118I-20100920	9-20-10	0916	GW	5	5						3	2								
-02	SA-PZ-123I-20100920	9-20-10	0920	GW	5	5						3	2								
-03	SA-PZ-118S-20100920	9-20-10	1014	GW	5	5						3	2								
-04	SA-PZ-123I1-20100920	9-20-10	1020	GW	5	5						3	2								
-05	SA-PZ-123S-20100920	9-20-10	1130	GW	5	5						3	2								
1009207-10	SA-PZ-122S-20100920	9-20-10	1151	GW	3	3						3									
1009207-11	SA-PZ-122D-20100920	9-20-10	1252	GW	3	3						3									
1009207-12	SA-PZ-120S-20100920	9-20-10	1255	GW	3	3						3									
1009207-13	SA-PZ-122I-20100920	9-20-10	1348	GW	9	9						9			Run MSMSD						

Lab Use Only

Sample Unpacked By: Matthew R Mowbray
Sample Order Entry By: Matthew R Mowbray
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-21-10 1530	Received by: Matthew R Mowbray	Date/Time: 9/22/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

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SW8015

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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: FedEx
Airbill No.: 8706 9629 3449
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or N
Sampler's Name: Jacob Birkett	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: 40 ml vials w/ HCl VOC	MEE	pH / Sample Info (Lab Use)
* 1009207-14	SA-PZ-143-20100920	9-20-10	1545	GW	3	3						3		
* -15	SA-Dup04-20100920	9-20-10	1200	GW	3	3						3		
1009221-06	SA-MW-131D-20100921	9-21-10	0830	GW	5	5						3	2	
* 1009207-16	SA-MW-132S-20100921	9-21-10	0845	GW	3	3						3		
* -17	SA-MW-132I-20100921	9-21-10	0942	GW	3	3						3		
1009221-07	SA-MW-131I-20100921	9-21-10	0950	GW	5	5						3	2	
* 1009207-18	SA-FB01-20100921	9-21-10	1015	GW	3	3						3		
1009221-08	SA-MW-131S-20100921	9-21-10	1055	GW	5	5						3	2	
* 1009207-19	SA-PZ-140-20100921	9-21-10	1100	GW	3	3						3		
1009221-09	SA-PZ-145D-20100921	9-21-10	1215	GW	5	5						3	2	

Source Blank

Lab Use Only

Sample Unpacked By: Matthews R Howard
Sample Order Entry By: Matthews R Howard
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-21-10 1530	Received by: Matthews R Howard	Date/Time: 9/22/2010 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

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CHAIN OF CUSTODY

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier FedEx
Airbill No. 8706 9629 3449
Sampling Complete? Y or (N)

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sak	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis (include method and bottle type): VOC 40ml Vials w/HCl →	MEE	pH / Sample Info (Lab Use)
1009221-10	SA-PZ-145S-20100921	9-21-10	1222	GW	5	5						5	○ sample needs MEE per Reb.	
↓ 11	SA-PZ-145I-20100921	9-21-10	1325	GW	5	5						3	2	
* 1009207-20	SA-Dup05-20100921	9-21-10	1200	GW	3	3						3		
* 1009207-21	SA-Dup06-20100921	9-21-10	1600	GW	3	3						3		

9/22/10

Lab Use Only

Sample Unpacked By: Matthew R Howard
Sample Order Entry By: Matthew R Howard
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-21-10 1530	Received by: Matthew R Howard	Date/Time: 9/22/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

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CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: Fed Ex
Airbill No.: 8706-9629-3438
Sampling Complete? (Y) or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett and Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC (40mL glass vial)	VOC (4 oz glass WM jar)								pH / Sample Info (Lab Use)
1009221-13	TB04-20100922	9-22-10	0710	TB	3	3						3			Lab prepared						
-14	SA-PZ-124-20100922	9-22-10	0923	GW	3	3						3									
-15	SA-PZ-125-20100922	9-22-10	0820	GW	3	3						3									
-16	SA-PZ-147-20100922	9-22-10	0942	GW	3	3						3									
-17	SA-PZ-148-20100922	9-22-10	0849	GW	3	3						3									
-18	SA-Dup87-20100922	9-22-10	1000	GW	3	3						3									
-19	SA-SW-124-20100922	9-22-10	0904	SW	3	3						3									
-20	SA-SW-125-20100922	9-22-10	0825	SW	3	3						3									
-21	SA-SW-201-20100922	9-22-10	0955	SW	3	3						3									
1009221-12	SA-SW-204-20100922	9-22-10	0730	SW	9	9						9			Run MS/MSD						

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-22-10 1130	Received by: K. Manning	Date/Time: 9.23.10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

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CHAIN OF CUSTODY

CompuChem
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501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: Fed Ex
Airbill No.: 8706-9629-3438
Sampling Complete? (Y) or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling Event
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC (40mL glass vial)	VOC (4oz glass WM jar)								pH / Sample Info (Lab Use)
1009221-22	SA-SW-Dup01-20100922	9-22-10	1005	SW	3	3						3									
1009243-02	SA-SD-124-20100922	9-22-10	0906	SO	1								1								
-03	SA-SD-125-20100922	9-22-10	0805	SO	1								1								
-04	SA-SD-201-20100922	9-22-10	0950	SO	1								1								
1009243-01	SA-SD-204-20100922	9-22-10	0735	SO	2								2		Run MSMSD						
-05	SA-SD-Dup01-20100922	9-22-10	1010	SO	1								1								

Lab Use Only

Sample Unpacked By: R. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-22-10 1130	Received by: R. Manning	Date/Time: 9-23-10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

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CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: Fed Ex
Airbill No.: 8706-9629-3438
Sampling Complete? (Y) or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett and Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC (40mL glass vial)	VOC (9 oz glass WM jar)								pH / Sample Info (Lab Use)
100922I-13	TB04-20100922	9-22-10	0710	TB	3	3						3			Lab prepared						
-14	SA-PZ-~~124~~ 125-20100922 MC 10/19/10	9-22-10	0923	GW	3	3						3									
-15	SA-PZ-~~125~~ 124-20100922 MC 10/19/10	9-22-10	0820	GW	3	3						3									
-16	SA-PZ-147-20100922	9-22-10	0942	GW	3	3						3									
-17	SA-PZ-148-20100922	9-22-10	0849	GW	3	3						3									
-18	SA-Dup~~06~~ 97-20100922	9-22-10	1000	GW	3	3						3									
-19	SA-SW-~~124~~ 125-20100922 10/19/10 MC	9-22-10	0904	SW	3	3						3									
-20	SA-SW-~~125~~ 124-20100922 MC 10/19/10	9-22-10	0825	SW	3	3						3									
-21	SA-SW-201-20100922	9-22-10	0955	SW	3	3						3									
100922I-12	SA-SW-204-20100922	9-22-10	0730	SW	9	9						9			Run MS/MSD						

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-22-10 1130	Received by: K. Manning	Date/Time: 9.23.10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

22520

Page 2 of 2

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier: Fed Ex
Airbill No.: 8706-9629-3438
Sampling Complete? (Y) or N

Client/Reporting Information	Project Information
Company Name: Tetra Tech	Project Name: NWIRP Calverton Annual GW Sampling Event
Address: 5700 Lake Wright Dr.	Sampling Location: Calverton, NY
City: Norfolk State: VA Zip: 23502	Turnaround time: Standard
Project Contact: Rob Sok	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-618-2104	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Jacob Birkett Vince Shickora	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: VOC (40mL glass vial)	VOC (4oz glass WM jar)								pH / Sample Info (Lab Use)
1009221-22	SA-SW-Dup01-20100922	9-22-10	1005	SW	3	3						3									
1009243-02	SA-SD-124-20100922	9-22-10	0906	SO	1								1								
-03	SA-SD-125-20100922	9-22-10	0805	SO	1								1								
-04	SA-SD-201-20100922	9-22-10	0950	SO	1								1								
1009243-01	SA-SD-204-20100922	9-22-10	0735	SO	2								2		Run MSMSD						
-05	SA-SD-Dup01-20100922	9-22-10	1010	SO	1								1								

Lab Use Only

Sample Unpacked By: R. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: Jacob Birkett	Date/Time: 9-22-10 1130	Received by: R. Manning	Date/Time: 9-23-10 0910
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

APPENDIX G

GROUNDWATER LEVEL MEASUREMENT SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area **Project No.:** 112G01655; CTO-160
Location: NWIRP Calverton, NY **Personnel:**
Weather Conditions: **Measuring Device:**
Tidally Influenced: Yes ___ No ___ **Remarks:**

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
ET-MW01S	4/7	1659		19.12	7.30			
ET-MW02S	4/7	1658		19.00	6.84			
ET-MW03S	4/7	1656		19.48	7.58			
FC-MW01S	4/7	1701		16.74	4.79			
FC-MW01I	4/7	1713		57.51	4.61			
FC-MW04S	4/7	1707		15.10	3.25			
FC-MW04I	4/7	1708		51.38	3.14			
FC-MW05S	4/7	1703		17.74	6.79			
FC-MW05I	4/7	1702		59.37	6.11			
FC-MW06S	4/7	1716		20.98	8.93			
FC-MW07S	4/7	1705		17.01	6.53			
FC-MW07I	4/7	1706		60.07	6.46			
FC-MW08S	4/7	—		14.49	—	☆ Not accessible, under water		
SA-MW-126S	4/7	1720		17.57	3.81			
SA-MW-126I	4/7	1719		52.18	3.96			
SA-MW-126D	4/7	1721		86.87	3.78			
SA-MW-127S	4/7	1610		17.15	4.86			
SA-MW-127I	4/7	1611		48.20	5.07			
SA-MW-127D	4/7	1612		77.14	5.10			
SA-MW-128S	4/7	1605		18.81	6.18			
SA-MW-128I	4/7	1606		42.20	6.65			
SA-MW-128D	4/7	1607		70.24	6.14			
SA-MW-129S	4/7	1603		31.32	19.25			
SA-MW-129I	4/7	1602		62.42	19.52			
SA-MW-129D	4/7	1600		92.01	19.36			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel:
Weather Conditions:
Measuring Device:
Tidally Influenced: Yes ___ No ___
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-MW-130S	4/7	1652		21.64	9.69			
SA-MW-130I	4/7	1653		48.16	9.49			
SA-MW-131S	4/7	1525		16.31	7.15			
SA-MW-131I	4/7	1527		41.55	6.81			
SA-MW-131D	4/7	1535		71.85	5.56			
SA-MW-132S	4/7	1526		16.90	4.05			
SA-MW-132I	4/7	1519		40.08	4.09			
SA-MW-118S	4/7	1543		18.48	3.88			
SA-MW-118I	4/7	1542		61.24	4.20			
SA-MW-120S	4/7	1535		21.11	4.82			
SA-MW-122S	4/7	1550		24.68	13.20			
SA-MW-122I	4/7	1552		51.22	12.95			
SA-MW-122D	4/7	1554		134.49	11.25			
SA-MW-123S	4/7	1545		19.07	8.20			
SA-MW-123I1	4/7	1546		44.40	8.71			
SA-MW-123I	4/7	1547		83.66	9.38			
Staff Gauge and River Monitoring Point								
				Top of Gauge				
Staff Gauge #1 WS PRSC		1515		3.33	2.18			
Staff Gauge #2 ES PRSC		1523		3.33	2.00			
BM ES Conn Ave HDWL		1540		Concrete	Nail = Concrete =	3.46		

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area **Project No.:** 112G01655; CTO-160

Location: NWIRP Calverton, NY **Personnel:** ~~E. Wu~~, R. Sok, V. Shikora

Weather Conditions: ~~30 F sunny moderate wind~~ 80F Sunny **Measuring Device:**

Tidally Influenced: Yes ___ No ___ **Remarks:**

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
FT-MW01S	4/7	1456		30.10	18.51			
FT-MW01I	4/7	1457		79.70	18.21			
FT-MW02S	4/7	1453		NA	10.86 TOP 10.90	0.04 ~~0.06~~		
FT-MW02I	4/7	1452		70.47	18.78			
FT-MW03S	4/7/10	~~1445~~		32.54	20.84			
FT-MW04S	4/7	1450		27.90	16.77			
FT-MW05S	4/7	1506		19.71	8.52			
FT-MW05I	4/7	1507		59.90	8.92			
FT-MW06S	4/7	1502		28.83	16.91			
FT-MW06I	4/7	1500		75.71	17.97			
FT-MW07S	4/7	1459		36.44	24.74			
FT-MW08S	4/7	1510		16.08	5.29			
FT-MW08I	4/7	1509		35.61	5.40			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area **Project No.:** 112G01655; CTO-160
Location: NWIRP Calverton, NY **Personnel:**
Weather Conditions: **Measuring Device:**
Tidally Influenced: Yes ___ No ___ **Remarks:**

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)* From TOC	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-PZ-133I1	4/7	1615		42.52	5.86			
SA-PZ-133I	4/7	1616		49.25	5.83	☆ Tubing		
SA-PZ-134	4/7	1608		46.75	4.16			
SA-PZ-135	4/7	1620		~~42.58~~ 48.14	~~R~~ 2.80			
SA-PZ-136	4/7	1622		50.59	3.70	☆ Soft bottom		fine silt in well
SA-PZ-137	4/7	1627		56.22	5.80			
SA-PZ-138	4/7	1640		56.30	3.07			
SA-PZ-139	4/7	1650		49.42	5.72			
SA-PZ-140								
SA-PZ-141								
SA-PZ-142								
SA-PZ-143								
SA-PZ-144S								
SA-PZ-144I								
SA-PZ-145S								
SA-PZ-145I								
SA-PZ-145D								
PZ-146	4/8/10			8.55	2.86			Stickup 2.70
		☆ Installed just west of River Rd, North of tributary						

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel:
Weather Conditions:
Measuring Device:
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
ET-MW01S	7/28	1100	47.53	19.12	9.63			
ET-MW02S	↓	1107	46.95	19.00	9.15		★	Needs new lock
ET-MW03S	↓	1105	47.81	19.48	9.94			
FC-MW01S	7/28	1131	47.5	16.74	7.50			No Lock 4in
FC-MW01I	↓	1133	47.35	57.51	7.31			4in
FC-MW04S	↓	1119	45.4	15.10	6.15			4in
FC-MW04I	↓	1121	45.32	51.38	6.03			4in
FC-MW05S	7/28	1112	48.03	17.74	9.45			4inch needs painted → 4inch
FC-MW05I	↓	1114	47.35	59.37	8.77			
FC-MW06S	7/28	1205	50.66	20.98	11.48			No Lock Broken lock flange
FC-MW07S	↓	1117	48.34	17.01	9.32			Broken lock flange 4 inch
FC-MW07I	↓	1203	48.25	60.07	9.26			Need to cut lock
FC-MW08S	↓	1124	45.18	14.49	4.81			4in
SA-MW-126S			39.79	17.57				
SA-MW-126I			39.97	52.18				
SA-MW-126D			40.04	86.87				
SA-MW-127S			40.57	17.15				
SA-MW-127I			40.79	48.20				
SA-MW-127D			40.57	77.14				
SA-MW-128S			40.54	18.81				
SA-MW-128I			40.96	42.20				
SA-MW-128D			40.64	70.24				
SA-MW-129S			51.92	31.32				
SA-MW-129I			52.16	62.42				
SA-MW-129D			52.19	92.01				

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel:
Weather Conditions:
Measuring Device:
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-MW-130S	7/28	1150	48.6	21.64	12.70			
SA-MW-130I	7/28	1151	38.84	48.16	12.47			
SA-MW-131S	7/28	0851	31.44	16.31	8.51			
SA-MW-131I	7/28	0852	31.43	41.55	8.16			
SA-MW-131D	7/28	0853	32.26	71.85	7.26			
SA-MW-132S	7/28	0835	~~36.75~~ 32.7	16.90	5.93		30.82	
SA-MW-132I	7/28	0836	36.76 ~~32.67~~	40.08	5.94			
SA-PZ-118S	↓	0913	27.25	18.48	5.07			
SA-PZ-118I	↓	0911	27.48	61.24	5.52			
SA-PZ-120S	7/28	0944	27.53	21.11	6.17			* BAD thing
SA-PZ-122S	7/28	0935	30.55	24.68	14.75			
SA-PZ-122I	↓	0937	30.62	51.22	14.53			
SA-PZ-122D	↓	0939	32.22	134.49	13.10			* BAD protective LID/Hinge broke
SA-PZ-123S	7/28	0930	28.76	19.07	9.16			
SA-PZ-123I1	7/28	0932	28.8	44.40	9.67			
SA-PZ-123I	7/28	0933	28.64	83.66	10.31			
Staff Gauge and River Monitoring Point								
				Top of Gauge				
Staff Gauge #1 WS PRSC	7/28	0840	32.38	3.33	1.82			~~Hard to~~ Read - Dirty gauge
Staff Gauge #2 ES PRSC	7/28	0844	32.41	3.33	1.66			? Staff gauge looks tilted
BM ES Conn Ave HDWL		0909	30.44	Concrete=	5.09			
FLMW03SR1	7/28	1135			7.49	Marked @ all casing		No lock
FLMW02SR1	↓	1137			6.85	↓		Strong petro odor, no lock
FLMW02IR1	↓	1139			6.84	↓		no lock

* All measurements to the nearest 0.01 foot

3 32.41 1.66 30.75

32.38 1.82 30.56

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:	Site 2, 6A, 10 B and Southern Area	**Project No.:**	112G01655; CTO-160
Location:	NWIRP Calverton, NY	**Personnel:**	E. Wu, V. Shikora
Weather Conditions:	30 F sunny moderate wind	**Measuring Device:**	
Tidally Influenced:	Yes ____ No ____	**Remarks:**	

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
FT-MW01S	7/28	1222	18.51	30.10	21.28			
FT-MW01I	↓	1224	18.21	79.70	20.98			
FT-MW02S	↓	1232	10.9	NA	13.65 ?	0.06	FP	Questionable reading
FT-MW02I	↓	1235	10.78	70.47	13.45			
FT-MW03S	7/28	1217	20.84	32.54	23.95			4 inch
FT-MW04S	7/28	1230	16.77	27.90	19.72			Bad lock 4 inch
FT-MW05S	7/28	1251	8.52	19.71	10.66			
FT-MW05I	↓	1253	8.92	59.90	11.08			
FT-MW06S	7/28	1247	16.91	28.83	19.74			
FT-MW06I	↓	1249	17.97	75.71	20.76			
FT-MW07S	7/28	1245	24.74	36.44	28.11			
FT-MW08S	↓	1256	5.29	16.08	7.22			
FT-MW08I	↓	1258	5.4	35.61	7.30			
SA-PZ166	7/28	0917			6.40			
SAPTW-2	7/28	0919			6.58			
SA-PZ169I	7/28	0921			7.42			
SA PZ-168I	7/28	0925			7.65			
SA Pt 168S	7/28	0926			7.28			
164I	7/28	0928			8.90			
164S	7/28	0929			8.19			

* All measurements to the nearest 0.01 foot

97% 4704

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel:
Weather Conditions:
Measuring Device:
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-PZ-133I1			41.43	42.52				
SA-PZ-133I			41.545	49.25				
SA-PZ-134			39.62	46.75				
SA-PZ-135			38.747	48.14				
SA-PZ-136			39.552	50.59				
SA-PZ-137			41.666	56.22				
SA-PZ-138			40.03	56.30				
SA-PZ-139			42.277	49.42				
SA-PZ-140	7/28	1001			13.88			
SA-PZ-141	↓	1004			14.11			
SA-PZ-142		1007			15.30			
SA-PZ-143	↓	1011			14.87			
SA-PZ-144S	7/28	1041			9.20			
SA-PZ-144I	7/28	1040			9.12			
SA-PZ-145S	7/28	0858			9.56			
SA-PZ-145I	↓	0859			9.73			
SA-PZ-145D	↓	0800			8.89			
SA-PZ-146	↓	0909	38.697	8.55	5.09			

* All measurements to the nearest 0.01 foot

7/28/10 PZ-139 8.03' / PZ-14911 9.63'

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area **Project No.:** 112G01655; CTO-160
Location: NWIRP Calverton, NY **Personnel:**
Weather Conditions: **Measuring Device:**
Tidally Influenced: Yes ____ No ____ **Remarks:**

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
ET-MW01S			47.53	19.12				
ET-MW02S			46.95	19.00				
ET-MW03S			47.81	19.48				
FC-MW01S			47.5	16.74				
FC-MW01I			47.35	57.51				
FC-MW04S			45.4	15.10				
FC-MW04I			45.32	51.36				
FC-MW05S			48.08	17.74				
FC-MW05I			47.35	59.37				
FC-MW06S			50.66	20.98				
FC-MW07S			48.34	17.01				
FC-MW07I			48.25	60.07				
FC-MW08S			45.18	14.49				
SA-MW-126S	7/28	1425	39.79	17.57	5.15			2" PVC
SA-MW-126I	"	1426	39.97	52.18	5.28			"
SA-MW-126D	"	1427	40.04	86.87	6.19			"
SA-MW-127S	7/28	1230	40.57	17.15	6.85			2" ΦPVC
SA-MW-127I	"	1231	40.79	48.20	7.07			" "
SA-MW-127D	"	1232	40.57	77.14	7.51			" "
SA-MW-128S	"	1233	40.54	18.81	8.66			" "
SA-MW-128I	"	1234	40.96	42.20	9.14			" "
SA-MW-128D	"	1235	40.64	70.24	8.65			" "
SA-MW-129S	"	1412	51.92	31.32	21.72			" "
SA-MW-129I	"	1413	52.16	62.42	21.98			" "
SA-MW-129D	"	1414	52.19	92.01	21.82			" "

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel:
Weather Conditions:
Measuring Device:
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-MW-130S			48.6	21.64				
SA-MW-130I			38.84	48.16				
SA-MW-131S			31.44	16.31				
SA-MW-131I			31.43	41.55				
SA-MW-131D			32.26	71.85				
SA-MW-132S			32.7	16.90				
SA-MW-132I			32.67	40.08				
SA-PZ-118S			27.25	18.48				
SA-PZ-118I			27.48	61.24				
SA-PZ-120S			27.53	21.11				
SA-PZ-122S			30.55	24.68				
SA-PZ-122I			30.62	51.22				
SA-PZ-122D			32.22	134.49				
SA-PZ-123S			28.76	19.07				
SA-PZ-123I1			28.8	44.40				
SA-PZ-123I			28.64	83.66				
Staff Gauge and River Monitoring Point								
				Top of Gauge				
Staff Gauge #1 WS PRSC			32.38	3.33				
Staff Gauge #2 ES PRSC			32.41	3.33				
BM ES Conn Ave HDWL			30.44	Concrete=				

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:	Site 2, 6A, 10 B and Southern Area	**Project No.:**	112G01655; CTO-160
Location:	NWIRP Calverton, NY	**Personnel:**	E. Wu, V. Shikora
Weather Conditions:	30 F sunny moderate wind	**Measuring Device:**	
Tidally Influenced:	Yes ____ No ____	**Remarks:**	

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
FT-MW01S			18.51	30.10				
FT-MW01I			18.21	79.70				
FT-MW02S			10.9	NA		0.06		
FT-MW02I			10.78	70.47				
FT-MW03S			20.84	32.54				
FT-MW04S			16.77	27.90				
FT-MW05S			8.52	19.71				
FT-MW05I			8.92	59.90				
FT-MW06S			16.91	28.83				
FT-MW06I			17.97	75.71				
FT-MW07S			24.74	36.44				
FT-MW08S			5.29	16.08				
FT-MW08I			5.4	35.61				

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:	Site 2, 6A, 10 B and Southern Area	**Project No.:**	112G01655; CTO-160
Location:	NWIRP Calverton, NY	**Personnel:**	
Weather Conditions:		**Measuring Device:**	
Tidally Influenced:	Yes ____ No ____	**Remarks:**	

Well or Piezometer Number	Date 2010	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-PZ-133I1			41.43	42.52	See Below			
SA-PZ-133I			41.545	49.25	" "			
SA-PZ-134 (I)	? 7/28	1225	39.62	46.75	6.27			1"ΦPVC
SA-PZ-135	"	1226	38.747	48.14	4.73			" "
SA-PZ-136	"	?	39.552	50.59				
SA-PZ-137	"	1421	41.666	56.22	7.45			1" PVC
SA-PZ-138			40.03	56.30				
SA-PZ-139			42.277	49.42				
SA-PZ-140								
SA-PZ-141								
SA-PZ-142								
SA-PZ-143								
SA-PZ-144S								
SA-PZ-144I								
SA-PZ-145S								
SA-PZ-145I								
SA-PZ-145D								
SA-PZ-146			38.697	8.55				
SAPZ16dI	7/28	1236			6.41			1"Φ PVC
SAPZ133I-1	"	1237			7.87			" "
SAPZ133I	"	1238			7.85			" "
SAPZ162I	"	1240			8.05			" "
SAPZ170I	"	1241			6.67			" "
SAPZ162SI	"	1242			6.65			" "
SAPTW1	"	1243			7.26			6" STEEL PUMPING WELL

*All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel: J. Birkett, V. Shickora
Weather Conditions: 60-80°F
Measuring Device:
Tidally Influenced: Yes ___ No X
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
ET-MW01S	9-22-10	1403	47.53	19.12	10.55			
ET-MW02S		1402	46.95	19.00	10.08			
ET-MW03S		1401	47.81	19.48	10.91			
FC-MW01S		1412	47.5	16.74	8.66			FC-MW-03SR1 7.50
FC-MW01I		1411	47.35	57.51	8.46			FC-MW-07IR1 7.84 FC-MW-07SR1 7.87
FC-MW04S		1416	45.4	15.10	7.19			
FC-MW04I		1417	45.32	51.38	7.10			
FC-MW05S		1407	48.03	17.74	10.40			
FC-MW05I		1406	47.35	59.37	9.73			
FC-MW06S		1426	50.66	20.98	12.39			
FC-MW07S		1409	48.34	17.01	10.34			
FC-MW07I		1408	48.25	60.07	10.28			
FC-MW08S		1413	45.18	14.49	5.91			
SA-MW-126S		1351	39.79	17.57	5.55			
SA-MW-126I		1352	39.97	52.18	5.66			
SA-MW-126D		1353	40.04	86.87	7.09			
SA-MW-127S		1320	40.57	17.15	7.44			
SA-MW-127I		1321	40.79	48.20	7.64			
SA-MW-127D		1322	40.57	77.14	8.45			
SA-MW-128S		1313	40.54	18.81	9.42			
SA-MW-128I		1314	40.96	42.20	9.88			
SA-MW-128D		1315	40.64	70.24	9.52			
SA-MW-129S		1308	51.92	31.32	22.41			
SA-MW-129I		1309	52.16	62.42	22.67			
SA-MW-129D	↓	1310	52.19	92.01	22.58			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area **Project No.:** 112G01655; CTO-160
Location: NWIRP Calverton, NY **Personnel:**
Weather Conditions: **Measuring Device:**
Tidally Influenced: Yes ___ No ___ **Remarks:**

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-MW-130S	9-22-10	~~1212~~ 1256	48.6	21.64	~~9.00~~ 13.70			
SA-MW-130I		1257	38.84	48.16	13.49			
SA-MW-131S		1212	31.44	16.31	9.00			
SA-MW-131I		1213	31.43	41.55	8.66			
SA-MW-131D		1214	32.26	71.85	7.89			
SA-MW-132S		1203	32.7	16.90	6.25			
SA-MW-132I		1202	32.67	40.08	6.25			
SA-PZ-118S		1143	27.25	18.48	5.33			
SA-PZ-118I	↓	1142	27.48	61.24	5.91			
SA-PZ-120S	9-22-10	1139	27.53	21.11	6.58			
SA-PZ-122S		~~1158~~ ~~1159~~	30.55	24.68	~~9.45~~ 15.14			
SA-PZ-122I		1159	30.62	51.22	14.95			
SA-PZ-122D		1200	32.22	134.49	13.82			
SA-PZ-123S		1154	28.76	19.07	9.45			
SA-PZ-123I1		1155	28.8	44.40	9.97			
SA-PZ-123I	↓	1156	28.64	83.66	10.58			
Staff Gauge and River Monitoring Point								
				Top of Gauge				
Staff Gauge #1 WS PRSC		1202	32.38	3.33	1.52			
Staff Gauge #2 ES PRSC		1210	32.41	3.33	1.40			
BM ES Conn Ave HDWL	↓	1145	30.44	Concrete=	5.54			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel: E. Wu, V. Shikora
Weather Conditions: 30 F sunny moderate wind
Measuring Device:
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
FT-MW01S	9-22-10	1447	18.51	30.10	22.47			
FT-MW01I	↓	1448	18.21	79.70	22.19			
FT-MW02S	↓	1455	10.9	NA	~~14.49~~ ~~14.58~~ 14.65	~~14.40~~ ~~0.09~~ 14.58 ~~0.06~~ 0.07		
FT-MW02I	↓	1454	10.78	70.47	14.49	14.40 0.09		
FT-MW03S	↓	1443	20.84	32.54	25.18			
FT-MW04S	↓	1451	16.77	27.90	20.23			
FT-MW05S	↓	1433	8.52	19.71	11.49			
FT-MW05I	↓	1434	8.92	59.90	11.90			
FT-MW06S	↓	1436	16.91	28.83	20.75			
FT-MW06I	↓	1435	17.97	75.71	21.77			
FT-MW07S	↓	1438	24.74	36.44	29.28			
FT-MW08S	↓	1431	5.29	16.08	7.99			
FT-MW08I	√	1432	5.4	35.61	8.08			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Site 2, 6A, 10 B and Southern Area
Project No.: 112G01655; CTO-160
Location: NWIRP Calverton, NY
Personnel:
Weather Conditions:
Measuring Device:
Tidally Influenced: Yes ____ No ____
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-PZ-133I1	9-22-10		41.43	42.52				
SA-PZ-133I			41.545	49.25				
SA-PZ-134 I		1317	39.62	46.75	6.89			
SA-PZ-135		1344	38.747	48.14	5.26			
SA-PZ-136		1349	39.552	50.59	5.90			
SA-PZ-137		1350	41.666	56.22	7.90			
SA-PZ-138			40.03	56.30				
SA-PZ-139		1335	42.277	49.42	8.65			
SA-PZ-140		1235			14.46			
SA-PZ-141		1233			14.00			
SA-PZ-142		1231			15.73			
SA-PZ-143		1228			15.21			
SA-PZ-144S		1243			9.43			
SA-PZ-144I		1242			9.37			
SA-PZ-145S	~~12-7~~	1217			10.18			
SA-PZ-145I		1218			10.35			
SA-PZ-145D		1219			9.79			
SA-PZ-146		1300	38.697	8.55	4.18			
SA-PZ-166I		1147			6.61			
SA-PTW-2		1148			6.80			
SA-PZ-169I		1149			7.64			
SA-PZ-168I		1150		82.68	7.88			
SA-PZ-168S		1151		18.05	7.53			
SA-PZ-164I		1153		82.75	9.11			
SA-PZ-164S	↓	1154		17.80	8.47			
SA-PZ-163I		1318			7.23			
SA-PZ-161I		1323			6.96			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NWIRP Calverton
Project No.: 112G01655
Location: Calverton NY
Personnel: J. Birkett, V. Shickora
Weather Conditions: 80° sunny
Measuring Device:
Tidally Influenced: Yes ___ No X
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
SA-PZ-161I	9-22-10	1324			5.23			
PZ-161I		1325			5.55			
PZ-158I1		1327			5.44			
PZ-158I		1328			5.79			
PZ-138I1		1330			5.62			
PZ-138		1331			5.76			
PZ-151I1		1332			4.79			
PZ-149I1		1333			10.30			
PZ-139		1335			8.65			

* All measurements to the nearest 0.01 foot

APPENDIX H

SURVEY DATA

Inventory of Well Survey Coordinates
NWIRP Calverton, New York

Well	Surveyed TOC (ft MSL)	Ground Surface Elevation (ft MSL)	Easting	Northing	Survey Date
Sites 6A, 10B, and Sothern Area Wells					
ET-MW01S	47.53	45.17	1319219.58	272723.82	2/27/2008
ET-MW02S	46.95	44.52	1319326.49	272738.87	2/27/2008
ET-MW03S	47.81	45.24	1319401.19	272862.30	2/27/2008
FC-MW01S	47.50	46.56	1318444.64	273844.47	3/1/2006
FC-MW01I	47.35	46.41	1318441.99	273854.48	3/1/2006
FC-MW02SR1					
FC-MW02IR1					
FC-MW03SR1					
FC-MW04S	45.40	44.46	1318715.85	273411.44	3/1/2006
FC-MW04I	45.32	44.37	1318714.01	273427.03	3/1/2006
FC-MW05S	48.03	45.50	1318873.02	272990.57	3/1/2006
FC-MW05I	47.35	45.43	1318883.39	272995.36	3/1/2006
FC-MW06S	50.66	48.48	1318373.96	273038.44	3/1/2006
FC-MW07S	48.34	45.89	1318793.91	273262.39	3/1/2006
FC-MW07I	48.25	46.13	1318800.45	273255.82	9/11/2009
FC-MW08S	45.18	***43.22***	1318774.00	273591.00	3/1/2006
SA-MW-126S	39.79	37.40	1319725.00	271463.06	2/27/2008
SA-MW-126I	39.97	37.54	1319714.73	271465.21	1/30/2008
SA-MW-126D	40.04	37.54	1319704.93	271466.35	1/30/2008
SA-MW-127S	40.57	38.38	1320603.69	271425.76	7/26/2010
SA-MW-127I	40.79	38.51	1320597.18	271425.84	1/30/2008
SA-MW-127D	40.57	38.51	1320587.46	271425.16	2/27/2008
SA-MW-128S	40.54	38.26	1322008.51	271422.53	1/30/2008
SA-MW-128I	40.96	38.59	1321999.47	271416.43	2/27/2008
SA-MW-128D	40.64	38.59	1321990.73	271412.70	2/27/2008
SA-MW-129S	51.92	49.75	1322926.20	271403.54	9/24/2008
SA-MW-129I	52.16	49.92	1322934.81	271402.88	9/24/2008
SA-MW-129D	52.19	49.92	1322941.91	271402.34	2/27/2008
SA-MW-130S	48.60	45.83	1320364.01	272483.42	9/11/2009
SA-MW-130I	48.33	45.91	1320364.53	272488.57	9/11/2009
SA-MW-131S	38.59	36.20	1322258.41	270695.05	9/11/2009
SA-MW-131I	38.24	36.03	1322255.02	270697.54	9/11/2009
SA-MW-131D	37.82	37.82	1322251.32	270700.55	9/11/2009
SA-MW-132S	36.75	34.09	1321516.74	269955.75	9/11/2009
SA-MW-132I	36.76	34.02	1321512.22	269953.37	9/11/2009
SA-PZ-118S	31.13	29.23	1323191.42	269855.77	3/1/2006
SA-PZ-118I	31.68	29.22	1323195.24	269844.47	3/1/2006
SA-PZ-120S	32.35	***30.34***	1324415.00	271128.00	7/7/2005
SA-PZ-122S	43.75	41.16	1322943.37	270910.39	9/24/2008
SA-PZ-122I	43.57	41.25	1322940.98	270917.45	9/24/2008
SA-PZ-122D	43.47	41.25	1322939.23	270923.08	3/1/2006
SA-PZ-123S	36.96	34.50	1323051.40	270448.04	9/24/2008
SA-PZ-123I1	37.51	34.50	1323048.54	270457.45	3/1/2006
SA-PZ-123I	38.02	35.26	1323045.79	270467.99	9/24/2008
SA-PZ-124			1323822.00	270307.00	
SA-PZ-125			1324508.00	270734.00	
2010 PZ's	**2010 SURVEY**	**2010 SURVEY**			
SA-PZ-133I	41.55	39.51	1320548.85	271427.21	4/1/2010
SA-PZ-133I1	41.43	39.32	1320544.25	271428.15	4/1/2010
SA-PZ-134	39.62	36.96	1320818.62	271418.32	4/1/2010
SA-PZ-135	38.75	36.69	1320285.02	271429.91	4/1/2010
SA-PZ-136	39.55	37.42	1320121.13	271428.04	4/1/2010
SA-PZ-137	41.67	39.25	1319979.88	271433.69	4/1/2010
SA-PZ-138I	40.03	36.94	1320058.12	271670.24	4/1/2010
SA-PZ-138I1	39.80	37.20	1320061.15	271670.28	7/26/2010
SA-PZ-139	42.28	39.95	1320288.42	271658.48	4/1/2010
SA-PZ-140	46.40	43.32	1321100.68	271135.59	7/26/2010
SA-PZ-141	46.08	43.79	1321124.11	270989.35	7/26/2010
SA-PZ-142	47.26	44.47	1321148.26	270753.40	7/26/2010
SA-PZ-143	46.39	43.95	1321167.01	270500.14	7/26/2010
SA-PZ-144S	41.50	38.82	1320454.98	270676.12	7/26/2010
SA-PZ-144I	41.76	38.93	1320452.81	270675.88	7/26/2010
SA-PZ-145S	40.96	37.95	1321862.68	271029.35	7/26/2010
SA-PZ-145I	41.11	38.11	1321863.72	271020.90	7/26/2010
SA-PZ-145D	40.98	37.84	1321864.40	271011.35	7/26/2010
SA-PZ-146	38.70	33.17	1320328.50	270599.80	4/1/2010
SA-PZ-147			1323504.00	270036.00	
SA-PZ-148			1324088.00	270525.00	
SA-PZ-149I1			1319998.00	271827.00	
SA-PZ-150I1		37.19	1320105.89	271659.89	7/26/2010
SA-PZ-151I1		37.51	1320130.55	271672.36	7/26/2010
SA-PZ-152I1		37.95	1320151.69	271684.71	7/26/2010
SA-PZ-153I1		39.70	1320176.16	271699.25	7/26/2010
SA-PZ-154I			1320134.00	271646.00	
SA-PZ-155I			1320157.00	271660.00	
SA-PZ-156I		38.40	1320179.51	271673.21	7/26/2010
SA-PZ-157I	39.51	37.30	1320169.65	271641.09	7/26/2010
SA-PZ-157I1	39.76	37.31	1320169.89	271643.51	7/26/2010
SA-PZ-158I	39.73	37.05	1320187.37	271622.66	7/26/2010
SA-PZ-158I1	39.37	37.36	1320190.44	271622.75	7/26/2010
SA-PZ-159I	39.17	37.06	1320199.95	271601.54	7/26/2010
SA-PZ-159I1	39.37	37.14	1320201.47	271602.72	7/26/2010
SA-PZ-160I	39.29	37.19	1320248.15	271546.99	7/26/2010
SA-PZ-160I1	38.95	37.02	1320250.43	271548.89	7/26/2010

Inventory of Well Survey Coordinates
NWIRP Calverton, New York

Well	Surveyed TOC (ft MSL)	Ground Surface Elevation (ft MSL)	Easting	Northing	Survey Date
SA-PZ-161I	40.59	38.21	1320355.53	271429.25	7/26/2010
SA-PZ-162I	41.80	38.67	1320586.47	271461.05	7/26/2010
SA-PZ-163I	40.17	37.63	1320710.34	271418.75	7/26/2010
SA-PZ-164S	36.51	32.82	1323068.78	270376.23	7/26/2010
SA-PZ-164I	35.64	32.78	1323068.90	270373.03	7/26/2010
SA-PZ-165S	30.73	37.74	1323047.86	270259.64	7/26/2010
SA-PZ-166I	33.03	30.16	1323100.39	270231.55	7/26/2010
SA-PZ-167S	30.35	26.66	1323193.08	270279.81	7/26/2010
SA-PZ-168S	34.72	31.87	1323079.61	270327.49	7/26/2010
SA-PZ-168I	34.40	31.56	1323080.41	270324.20	7/26/2010
SA-PZ-169I	34.07	31.22	1323087.20	270294.71	7/26/2010
SA-PZ-170I	40.38	37.64	1320636.57	271422.21	7/26/2010
SAPTW-1	40.95	38.28	1320592.11	271417.31	7/26/2010
SAPTW-2	33.57	31.05	1323090.31	270278.29	7/26/2010
Staff Gauge and River Monitoring Point					
Staff Gauge #1 WS PRSC	32.37		1321370.57	269847.50	9/11/2009
Staff Gauge #2 ES PRSC	32.41		1322534.70	269926.97	9/11/2009
BM ES Conn Ave HDWL	30.44	30.44	1323249.60	269793.26	11/1/2009
Site 2 - Fire Training Area					
FT-MW01I	18.21	62.11	1315387.56	272335.89	
FT-MW01S	18.51	62.12	1315398.63	272337.22	
FT-MW02I	10.78	53.26	1315648.19	271973.04	
FT-MW02S	10.90	53.34	1315638.35	271969.42	
FT-MW03S	20.84	64.38	1315114.71	272069.30	
FT-MW04S	16.77	59.95	1315757.06	272117.63	
FT-MW05I	8.92	49.87	1316019.35	271581.47	
FT-MW05S	8.52	49.37	1316028.85	271584.08	
FT-MW06I	17.97	60.38	1315627.81	271533.18	
FT-MW06S	16.91	59.44	1315613.67	271535.25	
FT-MW07S	24.74	68.33	1315127.39	271464.99	
FT-MW08I	5.40		1316151.44	271612.48	
FT-MW08S	5.29		1316147.19	271617.66	
Temporary Wells					
SA-TW-301			1319097.00	272344.00	GPS
SA-TW-302			1319507.00	272804.00	GPS
SA-TW-303			1319490.00	273041.00	GPS
SA-TW-304			1319332.00	271873.00	GPS
SA-TW-305			1319672.00	272202.00	GPS
SA-TW-306			1319872.00	272523.00	GPS
SA-TW-307			1320218.00	271991.00	GPS
SA-TW-308			1320413.00	272201.00	GPS
SA-TW-309			1318484.00	272743.00	GPS
SA-TW-310			1319570.00	271794.00	GPS
SA-TW-311			1319998.00	271827.00	GPS
SA-TW312			1320339.00	271435.00	GPS
SA-TW313			1320938.00	271868.00	GPS
SA-TW314			1321202.00	271408.00	GPS
SA-TW315			1321747.00	271415.00	GPS
SA-TW316			1322246.00	271393.00	GPS
SA-TW317			1321521.00	271774.00	GPS

Inventory of Well Survey Coordinates
NWIRP Calverton, New York

Well	Surveyed TOC (ft MSL)	Ground Surface Elevation (ft MSL)	Easting	Northing	Survey Date
SA-TW318		37.76	1319839.87	271659.70	4/1/2010
SA-TW319		41.30	1320418.31	271661.24	4/1/2010
SA-TW320		43.01	1319758.88	272025.16	4/1/2010
SA-TW321		44.77	1319966.63	272056.82	4/1/2010
SA-TW322		38.06	1320185.92	271666.77	4/1/2010
SA-TW323		55.23	1319666.55	273234.18	4/1/2010
SA-TW324		45.74	1319341.42	273345.58	4/1/2010
SA-TW325			1321136.00	270985.00	GPS
SA-TW326			1321154.00	270751.00	GPS
SA-TW327			1320710.00	271055.00	GPS
SA-TW328		37.13	1320897.49	270968.88	7/26/2010
SA-TW329		37.37	1320919.00	270488.60	7/26/2010
SA-TW330		53.43	1319605.91	273176.55	4/1/2010
SA-TW331			1319061.00	272460.00	GPS
SA-TW332			1319130.00	272532.00	GPS
SA-TW333		44.18	1319193.72	272604.98	7/26/2010
SA-TW334			1319319.00	272284.00	GPS
SA-TW335			1319384.00	272352.00	GPS
SA-TW336			1319463.00	272400.00	GPS
SA-TW337			1319520.00	272068.00	GPS
SA-TW338			1319584.00	272163.00	GPS
SA-TW339			1319649.00	272239.00	GPS
SA-TW340		44.48	1319265.93	272688.77	7/26/2010
SA-TW341		46.11	1318930.09	272702.50	7/26/2010
SA-TW342		45.68	1318979.01	272786.40	7/26/2010
SA-TW343		45.47	1319039.08	272874.94	7/26/2010
SA-TW344		45.13	1319085.47	272952.72	7/26/2010
SA-TW345			1321177.00	270984.00	GPS

Inventory of Well Survey Coordinates
NWIRP Calverton, New York

Well	Surveyed TOC (ft MSL)	Ground Surface Elevation (ft MSL)	Easting	Northing	Survey Date
SA-TW346			1318887.00	273115.00	GPS
SA-TW347			1318945.00	273194.00	GPS
SA-TW348			1318844.00	273039.00	GPS
SA-TW349			1318652.00	273227.00	GPS
SA-TW350			1318702.00	273280.00	GPS
SA-TW351			1318665.00	273374.00	GPS
SA-TW352			1321628.00	271561.00	GPS
SA-TW353			1321771.00	271561.00	GPS
SA-TW354			1321905.00	271561.00	GPS
SA-TW355			1322086.00	271563.00	GPS
SA-TW356			1322239.00	271563.00	GPS
SA-TW357			1322381.00	271561.00	GPS

Notes:
Bold and *Italics* : Indicates estimated
Elevations collected in NAVD88

APPENDIX I
PECONIC RIVER GROUNDWATER, SURFACE WATER, AND SEDIMENT SAMPLE LOG SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-124-20100721
Sample Location: SA-PZ-124
Sampled By: JB/VS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1152	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Low Flow	clear some							

PURGE DATA:

Date: 7-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs): 1146								
End Purge (hrs): 1152								
Total Purge Time (min): 6								
Total Vol. Purged (gal/L): 1 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	9 - 40mL VOA vials	yes

OBSERVATIONS / NOTES:

some floating organics

Circle If Applicable:

MS/MSD	Duplicate ID No.:
yes	—

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-125-20100721
Sample Location: SA-PZ-125
Sampled By: JB/VS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1100	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Low Flow	clear							

PURGE DATA:

Date: 7-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs): 1055								
End Purge (hrs): 1100								
Total Purge Time (min): 5 min								
Total Vol. Purged (gal/L): 1 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3- 40mL VOA vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Time 1200
—	SA-PZ-Dup01-20100721	

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-146 20100721
Sample Location: SA-PZ-
Sampled By: JB/VS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 7-21-10								
Time: 1220								
Method: Low Flow	clear slight brown tint							

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7-21-10								
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs): 1215								
End Purge (hrs): 1220								
Total Purge Time (min): 5 min								
Total Vol. Purged (gal/L): 1 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3- 40mL VOA vials	yes

OBSERVATIONS / NOTES:

some floating organics

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-PZ-147-20100721
Sample Location: SA-PZ-
Sampled By: JB/VS
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1130	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Low Flow	slight brown tint							

PURGE DATA:

Date: 7-21-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs): 1124								
End Purge (hrs): 1130								
Total Purge Time (min): 6 min								
Total Vol. Purged (gal/L): 1.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3-40mL VOA vials	yes

OBSERVATIONS / NOTES:

Some floating organics

Circle if Applicable:

MS/MSD — Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SD-124-0005-20100721
Sample Location: SA-SD-124
Sampled By: JB/VS
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-21-10 / Time: 1203 / Method: Direct Dip / Monitor Reading (ppm): —	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	0-0.5" bgs	tan to brown	silty sand some organics wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	1- 4 oz jar glass	yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SD-125-000.5-20100721
Sample Location: SA-SD-125
Sampled By: JB/VS
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-21-10	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1108	0-0.5' bgs	tan to brown	silty sand some organics wet
Method: Direct Dip			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	1 4 oz glass jar	yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SD-201-000,5-20100721
Sample Location: SA-SD-201
Sampled By: JB / VS
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-21-10	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1236	0-0.5' bgs	Brn to tan	sand fr. silt and organics wet
Method: Direct Dip			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOCs	1 4oz glass jar	Yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-SD-Dup01-20100721

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SD-204-000.5-20100721
Sample Location: SA-SD-204
Sampled By: JB/VS
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-21-10	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0740	0-0.5" bgs	Brn	sandy some F. organics and silt F. organics and roots wet
Method: Direct Dip			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOCs	2-4 oz glass jar	Yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
Yes	

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-124-20100721
Sample Location: SA-SW-124
Sampled By: JB/VS
C.O.C. No.:

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[ ] Other
[ ] QA Sample Type

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 7-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1201	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: direct dip	clear							

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL VOA vials	yes

OBSERVATIONS / NOTES:

5Dme suspended organics

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	—

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

- [x] Stream
- [ ] Spring
- [ ] Pond
- [ ] Lake
- [ ] Other
- [ ] QA Sample Type

Sample ID No.: SA-SW-201-20100721 (201 JB 7-21-10)
Sample Location: SA-SW-204
Sampled By: JB/VS
C.O.C. No.:
Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

SAMPLING DATA:

Date: 7-21-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1232								
Method: Direct dip								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	40mL VOA vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-SW-Dup01-20100721

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-125-20100721
Sample Location: SA-SW-125
Sampled By: JB/VS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[ ] Other
[ ] QA Sample Type

SAMPLING DATA:

Date: 7-21-10 JB 7/21/10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: ~~1100~~ 1112	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Direct Dip	clear							

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40mL VOA vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle If Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-201-20100721
Sample Location: SA-SW-201
Sampled By: JB/VS
C.O.C. No.:

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[ ] Other
[ ] QA Sample Type

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 7-21-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0735	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Direct Dip	clear floating organics							

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	9 - 40mL VOA vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

MC 10/19/10

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-PZ-125-20100922 ~~125~~ 124
Sample Location: SA-PZ-125 124
Sampled By: JB/VS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

SAMPLING DATA:

Date: 9-22-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0820								
Method: Low Flow	clear	5.95	0.065	16.24	0.7	5.86	0.0	229

PURGE DATA:

Date: 9-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: Low Flow		6.06	0.078	17.09	4.3	6.23	0.0	232	0810
Monitor Reading (ppm): —		6.05	0.065	16.57	2.2	6.05	0.0	230	0815
Well Casing Diameter & Material		5.95	0.065	16.24	0.7	5.86	0.0	229	0817
Type: Stainless Steel									
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs): 0808									
End Purge (hrs): 0820									
Total Purge Time (min): 12									
Total Vol. Purged (gal/L): 1 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3 40mL glass vials	yes

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

10/19/10

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-PZ-~~124~~125-20100922
Sample Location: SA-PZ-~~124~~ 125
Sampled By: SB/VS
C.O.C. No.:

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-22-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0923	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	7.15	0.166	15.76	3.1	2.87	0.0	-52

PURGE DATA:

Date: 9-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS								
Monitor Reading (ppm): —		7.18	0.167	16.72	52.2	3.29	0.0	-38	0914
Well Casing Diameter & Material		7.15	0.167	15.71	8.2	2.90	0.0	-49	0918
Type: 2" Stainless Steel		7.15	0.166	15.76	3.1	2.87	0.0	-52	0921
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs): 0912									
End Purge (hrs): 0923									
Total Purge Time (min): 11									
Total Vol. Purged (gal/L): 1 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	No

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-147-20100922
Sample Location: SA-PZ-147
Sampled By: JB/NS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-22	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0942	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.46	0.115	16.30	5.4	2.89	0.0	96

PURGE DATA:

Date: 9-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	
Method: Low Flow Peristaltic	~~SEE LOW FLOW PURGE SHEET FOR DETAILS~~								
Monitor Reading (ppm): —		6.71	0.116	16.87	49.5	3.41	0.0	64	0933
Well Casing Diameter & Material		6.54	0.115	16.45	14.5	2.80	0.0	86	0937
Type: 2" Stainless Steel		6.46	0.115	16.30	5.4	2.89	0.0	96	0940
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs): 0931									
End Purge (hrs): 0942									
Total Purge Time (min): 11									
Total Vol. Purged (gal/L): 1 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	Yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-148-20100922
Sample Location: SA-PZ-148
Sampled By: JB/VS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-22-10	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0849	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	5.84	0.056	17.91	25.2	3.18	0.0	196

PURGE DATA:

Date: 9-22-10	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Method: Low Flow Peristaltic	SEE LOW FLOW PURGE SHEET FOR DETAILS								
Monitor Reading (ppm): —		6.32	0.057	17.91	63.6	3.90	0.0	175	0840
Well Casing Diameter & Material		5.95	0.056	17.73	45.6	3.05	0.0	188	0844
Type: 2" Stainless Steel		5.84	0.056	17.91	25.2	3.18	0.0	196	0847
Total Well Depth (TD):									
Static Water Level (WL):									
One Casing Volume(gal/L):									
Start Purge (hrs): 0838									
End Purge (hrs): 0849									
Total Purge Time (min): 11									
Total Vol. Purged (gal/L): 1 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 40-mL clear glass vials	yes
MEE	HCl	2 40-mL clear glass vials	no

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: SA-Dup07-20100922 1000

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-124-20100922
Sample Location: SA-SD-124
Sampled By: JB/VS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9-22-10 / Time: 0906 / Method: Direct Dip / Monitor Reading (ppm): 0	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	0-0.5' bgs	brn	Sandy silt and organics

COMPOSITE SAMPLE DATA:

Date: / Method: / Monitor Readings (Range in ppm):	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	1 4oz glass WM jar	yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD: ——

Duplicate ID No.: SA-SD-Dup 01-20100922 (1010)

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-125-20100922
Sample Location: SA-SD-125
Sampled By: SB/VS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9-22-10	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0805	0-0.5' bgs	dk brn to brn	sandy silt and organic matter
Method: Direct Dip			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	1 4oz WM glass jar	yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-SD-201-20100922
Sample Location: SA-SD-201
Sampled By: SB/VS
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9-22-10	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0950	0-0.5' bgs	brn	silty sand some F. gravel trorganic matter
Method: Direct Dip			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	1 4 oz glass WM jar	Yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-SD-204-20100922
Sample Location: SA-SD-204
Sampled By: JB/VS
C.O.C. No.:

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9-22-10	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0735	0-0.5' bgs	brown	silty brown sand some organic matter
Method: Direct Dip			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOC	1 4oz glass WM jar	yes	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

MC 2 10/19/10

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-~~125~~-124-20100922
Sample Location: SA-SW-~~125~~ 124
Sampled By: JB/VS
C.O.C. No.:

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 9-22-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0825								
Depth: 0.5'	clear	6.32	0.079	19.21	24.9	7.22	0.0	123
Method: Direct Dip								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3 40mL glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

MC 10/19/10

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-124-125-20100922
Sample Location: SA-SW-124 125
Sampled By: JB/US
C.O.C. No.:

[X] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-22-10 / Time: 0904 / Depth: 0.5' / Method: Direct Dip	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	6.88	0.080	19.96	47.7	7.66	0.0	-134

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3-40mL glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: SA-SW-Dup01-20100922

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: NIWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-201-20100922
Sample Location: SA-SW-201
Sampled By: JB/VS
C.O.C. No.:

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 9-22-10 / Time: 0955 / Depth: 0.5' / Method: Direct Dip	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	6.53	0.080	20.33	2.2	7.40	0.0	96

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3 40 mL clear glass vials	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G01655

Sample ID No.: SA-SW-204-20100922
Sample Location: SA-SW-204
Sampled By: JB/VS
C.O.C. No.:

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 9-22-10	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0930								
Depth: 0.5'								
Method: Direct Dip	Clear	6.85	0.087	18.49	0.0	7.03	0.0	172

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	3 40mL glass	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
Yes	

Signature(s):

APPENDIX J

ANALYTICAL RESULTS FORM 1S

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0559

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	67	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	41	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	460	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	120	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	1.1	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.32	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0559

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.65	J
106-46-7	1,4-Dichlorobenzene	2.2	J
95-50-1	1,2-Dichlorobenzene	0.91	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	3.0	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-133I

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0559

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
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7.					
8.					
9.					
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27.					
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29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133IDL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-05D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	40	U
95-47-6	o-Xylene (part of total)	20	U
156-60-5	trans-1,2-DCE (part of total	20	U
75-71-8	Dichlorodifluoromethane	20	U
156-59-2	cis-1,2-DCE (part of total)	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	29	D
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	38	D
75-15-0	Carbon disulfide	20	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	20	U
67-64-1	Acetone	50	U
75-09-2	Methylene Chloride	2.4	DJ
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	460	D
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-butanone	50	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	110	D
56-23-5	Carbon Tetrachloride	20	U
563-58-6	1,1-dichloropropene	20	U
71-43-2	Benzene	1.7	DJ
107-06-2	1,2-Dichloroethane	20	U
79-01-6	Trichloroethene	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133IDL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-05D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropyl Benzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	2.3	DJ
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	3.6	DJ
91-20-3	Naphthalene	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
1330-20-7	Xylene (total)	20	U
79-20-9	Methyl acetate	20	U
110-82-7	Cyclohexane	20	U
108-87-2	Methylcyclohexane	20	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-133IDL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-05D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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6.					
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27.					
28.					
29.					
30.					

FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-1959

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	9.6	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	7.8	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	1.9	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	130	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	24	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.51	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-1959

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.70	J
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.98	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133I1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	4.9	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.6	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	26	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.0	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-133I1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.2	J
95-50-1	1,2-Dichlorobenzene	0.36	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.75	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-133I1

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP01
SA-PZ-13311-20100331

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-10R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.68	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	23	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP01
SA-PZ-13311-20100331

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-10R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.3	J
95-50-1	1,2-Dichlorobenzene	0.41	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.91	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-DUP01
SA-PZ-1331-20100331

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-10R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-134

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-06R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	2.6	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.63	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	31	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.3	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.36	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-134

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-06R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.42	J
106-46-7	1,4-Dichlorobenzene	1.3	J
95-50-1	1,2-Dichlorobenzene	0.43	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.5	J
91-20-3	Naphthalene	1.5	J
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-134

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-06R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0859

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	15	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	22	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	240	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	70	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.35	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.37	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0859

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.38	J
95-50-1	1,2-Dichlorobenzene	0.91	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0859

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-135DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-08D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	20	U
95-47-6	o-Xylene (part of total)	10	U
156-60-5	trans-1,2-DCE (part of total	10	U
75-71-8	Dichlorodifluoromethane	10	U
156-59-2	cis-1,2-DCE (part of total)	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	19	D
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	8.1	DJ
75-15-0	Carbon disulfide	10	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	10	U
67-64-1	Acetone	25	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	260	D
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-butanone	25	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	83	D
56-23-5	Carbon Tetrachloride	10	U
563-58-6	1,1-dichloropropene	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-135DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-08D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-hexanone	25	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropyl Benzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
1330-20-7	Xylene (total)	10	U
79-20-9	Methyl acetate	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-135DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-08D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-136

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0759

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.5	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-136

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0759

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-136

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0759

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-137

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.44	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-137

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-137

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-138

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-09R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	8.7	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-138

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-09R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-138

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-09R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20100708-DUP
SA-PZ-138I-20100708

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-17R59

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	1.7	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.0	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	1.1	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	20	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	4.4	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

20100708-DUP
SA-PZ-138I-20100708

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-17R59

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-138I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-16R59

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.2	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.90	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	20	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	4.4	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-138I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-16R59

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-139

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0159

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	22	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	11	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.64	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	160	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	35	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.35	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.38	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-139

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0159

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.41	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.84	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-PZ-139

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0159

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-139I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-20R59

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	1.8	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.94	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	1.2	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	17	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.3	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.57	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-139I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1007021

Matrix: (soil/water) WATER Lab Sample ID: 1007021-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1007021-20R59

Level: (low/med) LOW Date Received: 07/09/10

% Moisture: not dec. _____ Date Analyzed: 07/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-140-20100630

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0169.d Sampled: 06/30/10 09:27

Initial/Final: 5mL / 5mL Lab ID: 1007009-01 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 19:06

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	1.0	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride	0.60	0.48	0.50	5.0	J
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	19	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	8.5	0.53	2.0	5.0	
67-64-1	Acetone	3.6	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.17	0.16	0.50	5.0	JB
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.64	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	140	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone	2.1	1.5	5.0	13	J
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	17	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone	1.8	1.1	1.3	13	J
108-88-3	Toluene	1.0	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone	2.6	1.2	1.3	13	JB
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene	0.58	0.27	0.50	5.0	J
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-140-20100630

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0169.d Sampled: 06/30/10 09:27

Initial/Final: 5mL / 5mL Lab ID: 1007009-01 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 19:06

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene	1.2	0.36	0.50	5.0	J
106-46-7	1,4-Dichlorobenzene	4.1	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	1.1	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	3.1	0.48	0.50	5.0	JB
91-20-3	Naphthalene	4.6	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.46	89	85 - 115	
1,2-Dichloroethane-d4	50.00	51.73	103	70 - 120	
Toluene-d8	50.00	48.34	97	85 - 120	
Bromofluorobenzene	50.00	44.06	88	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000087-61-6	Benzene, 1,2,3-trichloro-	6.6	331631	17.476	93	JN
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-141-20100630

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-12R59.d Sampled: 06/30/10 13:58

Initial/Final: 5mL / 5mL Lab ID: 1007009-12 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0071409-BLK1 Prepared: 07/14/10 12:56

% Moisture: NA Analyzed: 07/14/10 14:28

Batch: 0071409 Sequence: 0G14010 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.3	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	2.8	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.89	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-141-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-12R59.d | Sampled: 06/30/10 13:58

Initial/Final: 5mL / 5mL | Lab ID: 1007009-12 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071409-BLK1 | Prepared: 07/14/10 12:56

% Moisture: NA | Analyzed: 07/14/10 14:28

Batch: 0071409 | Sequence: 0G14010 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.38	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	2.7	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.07	106	85 - 115	
1,2-Dichloroethane-d4	50.00	51.95	104	70 - 120	
Toluene-d8	50.00	56.27	113	85 - 120	
Bromofluorobenzene	50.00	55.90	112	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-142-20100629

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0669.d Sampled: 06/29/10 15:11

Initial/Final: 5mL / 5mL Lab ID: 1007009-06 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 22:24

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.79	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride	1.7	0.48	0.50	5.0	J
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	36	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	21	0.53	2.0	5.0	
67-64-1	Acetone	2.8	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	360	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	60	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane	0.55	0.23	0.50	5.0	J
71-43-2	Benzene	0.42	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.63	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene	0.34	0.27	0.50	5.0	J
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-142-20100629

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-0669.d | Sampled: 06/29/10 15:11

Initial/Final: 5mL / 5mL | Lab ID: 1007009-06 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070629-BLK1 | Prepared: 07/06/10 17:18

% Moisture: NA | Analyzed: 07/06/10 22:24

Batch: 0070629 | Sequence: 0G06001 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	1.5	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	0.58	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.3	0.48	0.50	5.0	JB
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.12	90	85 - 115	
1,2-Dichloroethane-d4	50.00	54.30	109	70 - 120	
Toluene-d8	50.00	51.00	102	85 - 120	
Bromofluorobenzene	50.00	45.14	90	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-142-20100629DL

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-06D69.d Sampled: 06/29/10 15:11

Initial/Final: 5mL / 5mL Lab ID: 1007009-06RE1 Received: 07/01/10 09:10

Dilution: 2.86 pH: Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 22:04

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.92	1.4	14	U
74-87-3	Chloromethane		1.1	1.4	14	U
75-01-4	Vinyl chloride	3.5	1.4	1.4	14	JD
74-83-9	Bromomethane		2.2	5.7	14	U
75-00-3	Chloroethane	44	1.6	5.7	14	D
75-69-4	Trichlorofluoromethane		1.4	1.4	14	U
75-35-4	1,1-Dichloroethene	24	1.5	5.7	14	D
67-64-1	Acetone	7.6	4.6	14	36	JBD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.3	5.7	14	U
75-15-0	Carbon disulfide		0.46	1.4	14	U
79-20-9	Methyl acetate		2.5	5.7	14	U
75-09-2	Methylene chloride		1.4	1.4	14	U
156-60-5	trans-1,2-Dichloroethene		1.3	1.4	14	U
1634-04-4	Methyl tert-butyl ether		0.63	1.4	14	U
75-34-3	1,1-Dichloroethane	410	0.77	1.4	14	D
156-59-2	cis-1,2-Dichloroethene		1.9	5.7	14	U
78-93-3	2-Butanone		4.3	14	36	U
67-66-3	Chloroform		0.77	1.4	14	U
71-55-6	1,1,1-Trichloroethane	62	0.92	1.4	14	D
110-82-7	Cyclohexane		1.3	1.4	14	U
563-58-6	1,1-Dichloropropene		1.2	1.4	14	U
56-23-5	Carbon tetrachloride		0.89	1.4	14	U
107-06-2	1,2-Dichloroethane		0.66	1.4	14	U
71-43-2	Benzene		0.80	1.4	14	U
79-01-6	Trichloroethene		0.80	1.4	14	U
108-87-2	Methylcyclohexane		1.0	1.4	14	U
78-87-5	1,2-Dichloropropane		2.5	5.7	14	U
75-27-4	Bromodichloromethane		1.0	1.4	14	U
10061-01-5	cis-1,3-Dichloropropene		1.5	5.7	14	U
108-10-1	4-Methyl-2-pentanone		3.1	3.6	36	U
108-88-3	Toluene	1.2	0.89	1.4	14	JBD
10061-02-6	trans-1,3-Dichloropropene		1.3	1.4	14	U
79-00-5	1,1,2-Trichloroethane		1.5	5.7	14	U
127-18-4	Tetrachloroethene		1.2	1.4	14	U
591-78-6	2-Hexanone		3.4	3.6	36	U
124-48-1	Dibromochloromethane		0.92	1.4	14	U
106-93-4	1,2-Dibromoethane		1.3	1.4	14	U
108-90-7	Chlorobenzene		0.77	1.4	14	U
100-41-4	Ethylbenzene		1.2	1.4	14	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-142-20100629DL

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-06D69.d | Sampled: 06/29/10 15:11

Initial/Final: 5mL / 5mL | Lab ID: 1007009-06RE1 | Received: 07/01/10 09:10

Dilution: 2.86 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 22:04

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		2.4	2.9	29	U
95-47-6	o-Xylene		0.72	1.4	14	U
100-42-5	Styrene		1.0	1.4	14	U
75-25-2	Bromoform		2.7	5.7	14	U
98-82-8	Isopropylbenzene		0.77	1.4	14	U
79-34-5	1,1,2,2-Tetrachloroethane		1.8	5.7	14	U
541-73-1	1,3-Dichlorobenzene		1.0	1.4	14	U
106-46-7	1,4-Dichlorobenzene	1.3	0.86	1.4	14	JD
95-50-1	1,2-Dichlorobenzene		1.0	1.4	14	U
96-12-8	1,2-Dibromo-3-chloropropane		2.6	5.7	14	U
120-82-1	1,2,4-Trichlorobenzene	2.6	1.4	1.4	14	JBD
91-20-3	Naphthalene		3.1	5.7	14	U
540-59-0	1,2-Dichloroethene (total)		1.3	1.4	14	U
1330-20-7	Xylenes (total)		0.72	1.4	14	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.43	89	85 - 115	
1,2-Dichloroethane-d4	50.00	54.27	109	70 - 120	
Toluene-d8	50.00	48.13	96	85 - 120	
Bromofluorobenzene	50.00	41.83	84	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-143-20100629

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-0769.d | Sampled: 06/29/10 15:22

Initial/Final: 5mL / 5mL | Lab ID: 1007009-07 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070629-BLK1 | Prepared: 07/06/10 17:18

% Moisture: NA | Analyzed: 07/06/10 22:52

Batch: 0070629 | Sequence: 0G06001 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.74	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride	2.4	0.48	0.50	5.0	J
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	44	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	39	0.53	2.0	5.0	
67-64-1	Acetone	4.1	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.56	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	490	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	110	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane	0.83	0.23	0.50	5.0	J
71-43-2	Benzene	0.87	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.88	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-143-20100629

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0769.d Sampled: 06/29/10 15:22

Initial/Final: 5mL / 5mL Lab ID: 1007009-07 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 22:52

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	0.90	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene	0.69	0.36	0.50	5.0	J
106-46-7	1,4-Dichlorobenzene	3.1	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	1.6	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.7	0.48	0.50	5.0	JB
91-20-3	Naphthalene	1.9	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	43.69	87	85 - 115	
1,2-Dichloroethane-d4	50.00	52.27	105	70 - 120	
Toluene-d8	50.00	50.66	101	85 - 120	
Bromofluorobenzene	50.00	44.85	90	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-143-20100629DL

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-07D69.d | Sampled: 06/29/10 15:22

Initial/Final: 5mL / 5mL | Lab ID: 1007009-07RE1 | Received: 07/01/10 09:10

Dilution: 3.85 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 22:32

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		1.2	1.9	19	U
74-87-3	Chloromethane		1.5	1.9	19	U
75-01-4	Vinyl chloride	5.0	1.8	1.9	19	JD
74-83-9	Bromomethane		2.9	7.7	19	U
75-00-3	Chloroethane	52	2.1	7.7	19	D
75-69-4	Trichlorofluoromethane		1.9	1.9	19	U
75-35-4	1,1-Dichloroethene	43	2.0	7.7	19	D
67-64-1	Acetone	8.6	6.2	19	48	JBD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		3.2	7.7	19	U
75-15-0	Carbon disulfide		0.62	1.9	19	U
79-20-9	Methyl acetate		3.3	7.7	19	U
75-09-2	Methylene chloride		1.9	1.9	19	U
156-60-5	trans-1,2-Dichloroethene		1.7	1.9	19	U
1634-04-4	Methyl tert-butyl ether		0.85	1.9	19	U
75-34-3	1,1-Dichloroethane	590	1.0	1.9	19	D
156-59-2	cis-1,2-Dichloroethene		2.5	7.7	19	U
78-93-3	2-Butanone		5.8	19	48	U
67-66-3	Chloroform		1.0	1.9	19	U
71-55-6	1,1,1-Trichloroethane	110	1.2	1.9	19	D
110-82-7	Cyclohexane		1.7	1.9	19	U
563-58-6	1,1-Dichloropropene		1.6	1.9	19	U
56-23-5	Carbon tetrachloride		1.2	1.9	19	U
107-06-2	1,2-Dichloroethane		0.89	1.9	19	U
71-43-2	Benzene		1.1	1.9	19	U
79-01-6	Trichloroethene		1.1	1.9	19	U
108-87-2	Methylcyclohexane		1.3	1.9	19	U
78-87-5	1,2-Dichloropropane		3.3	7.7	19	U
75-27-4	Bromodichloromethane		1.4	1.9	19	U
10061-01-5	cis-1,3-Dichloropropene		2.0	7.7	19	U
108-10-1	4-Methyl-2-pentanone		4.2	4.8	48	U
108-88-3	Toluene	1.4	1.2	1.9	19	JBD
10061-02-6	trans-1,3-Dichloropropene		1.7	1.9	19	U
79-00-5	1,1,2-Trichloroethane		2.0	7.7	19	U
127-18-4	Tetrachloroethene		1.6	1.9	19	U
591-78-6	2-Hexanone		4.6	4.8	48	U
124-48-1	Dibromochloromethane		1.2	1.9	19	U
106-93-4	1,2-Dibromoethane		1.7	1.9	19	U
108-90-7	Chlorobenzene		1.0	1.9	19	U
100-41-4	Ethylbenzene		1.6	1.9	19	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-143-20100629DL

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-07D69.d | Sampled: 06/29/10 15:22

Initial/Final: 5mL / 5mL | Lab ID: 1007009-07RE1 | Received: 07/01/10 09:10

Dilution: 3.85 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 22:32

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		3.2	3.9	39	U
95-47-6	o-Xylene		0.96	1.9	19	U
100-42-5	Styrene		1.4	1.9	19	U
75-25-2	Bromoform		3.7	7.7	19	U
98-82-8	Isopropylbenzene		1.0	1.9	19	U
79-34-5	1,1,2,2-Tetrachloroethane		2.5	7.7	19	U
541-73-1	1,3-Dichlorobenzene		1.4	1.9	19	U
106-46-7	1,4-Dichlorobenzene	3.3	1.2	1.9	19	JD
95-50-1	1,2-Dichlorobenzene		1.3	1.9	19	U
96-12-8	1,2-Dibromo-3-chloropropane		3.5	7.7	19	U
120-82-1	1,2,4-Trichlorobenzene	2.3	1.8	1.9	19	JBD
91-20-3	Naphthalene		4.2	7.7	19	U
540-59-0	1,2-Dichloroethene (total)		1.7	1.9	19	U
1330-20-7	Xylenes (total)		0.96	1.9	19	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.78	90	85 - 115	
1,2-Dichloroethane-d4	50.00	54.30	109	70 - 120	
Toluene-d8	50.00	48.44	97	85 - 120	
Bromofluorobenzene	50.00	43.01	86	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-144S-20100629

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0469.d Sampled: 06/29/10 12:57

Initial/Final: 5mL / 5mL Lab ID: 1007009-04 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 21:27

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.66	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.8	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.67	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-144S-20100629

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-0469.d | Sampled: 06/29/10 12:57

Initial/Final: 5mL / 5mL | Lab ID: 1007009-04 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070629-BLK1 | Prepared: 07/06/10 17:18

% Moisture: NA | Analyzed: 07/06/10 21:27

Batch: 0070629 | Sequence: 0G06001 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	43.78	88	85 - 115	
1,2-Dichloroethane-d4	50.00	52.61	105	70 - 120	
Toluene-d8	50.00	49.29	99	85 - 120	
Bromofluorobenzene	50.00	43.79	88	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-144I-20100629

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0569.d Sampled: 06/29/10 13:16

Initial/Final: 5mL / 5mL Lab ID: 1007009-05 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 21:56

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.70	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.9	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	3.7	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.82	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-144I-20100629

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-0569.d | Sampled: 06/29/10 13:16

Initial/Final: 5mL / 5mL | Lab ID: 1007009-05 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070629-BLK1 | Prepared: 07/06/10 17:18

% Moisture: NA | Analyzed: 07/06/10 21:56

Batch: 0070629 | Sequence: 0G06001 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.41	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	43.66	87	85 - 115	
1,2-Dichloroethane-d4	50.00	53.17	106	70 - 120	
Toluene-d8	50.00	50.14	100	85 - 120	
Bromofluorobenzene	50.00	45.11	90	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145S-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-1069.d | Sampled: 06/30/10 12:10

Initial/Final: 5mL / 5mL | Lab ID: 1007009-10 | Received: 07/01/10 09:10

Dilution: 1 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 23:01

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.4	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.63	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145S-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-1069.d | Sampled: 06/30/10 12:10

Initial/Final: 5mL / 5mL | Lab ID: 1007009-10 | Received: 07/01/10 09:10

Dilution: 1 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 23:01

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	43.97	88	85 - 115	
1,2-Dichloroethane-d4	50.00	52.89	106	70 - 120	
Toluene-d8	50.00	49.47	99	85 - 120	
Bromofluorobenzene	50.00	42.62	85	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145I-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-09R69.d | Sampled: 06/30/10 11:02

Initial/Final: 5mL / 5mL | Lab ID: 1007009-09 | Received: 07/01/10 09:10

Dilution: 1 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 21:36

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.49	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride	0.53	0.48	0.50	5.0	J
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	6.1	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	8.2	0.53	2.0	5.0	
67-64-1	Acetone	1.9	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	91	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	8.7	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.38	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145I-20100630

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-09R69.d Sampled: 06/30/10 11:02

Initial/Final: 5mL / 5mL Lab ID: 1007009-09 Received: 07/01/10 09:10

Dilution: 1 pH: Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 21:36

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.49	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.3	0.48	0.50	5.0	JB
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.55	89	85 - 115	
1,2-Dichloroethane-d4	50.00	51.27	103	70 - 120	
Toluene-d8	50.00	49.16	98	85 - 120	
Bromofluorobenzene	50.00	42.46	85	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145D-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-08R69.d | Sampled: 06/30/10 10:58

Initial/Final: 5mL / 5mL | Lab ID: 1007009-08 | Received: 07/01/10 09:10

Dilution: 1 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 21:08

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.40	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	0.99	0.55	2.0	5.0	J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	1.1	0.53	2.0	5.0	J
67-64-1	Acetone	3.3	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	18	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.51	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145D-20100630

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-08R69.d Sampled: 06/30/10 10:58

Initial/Final: 5mL / 5mL Lab ID: 1007009-08 Received: 07/01/10 09:10

Dilution: 1 pH: Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 21:08

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.97	0.48	0.50	5.0	JB
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.74	89	85 - 115	
1,2-Dichloroethane-d4	50.00	53.60	107	70 - 120	
Toluene-d8	50.00	49.08	98	85 - 120	
Bromofluorobenzene	50.00	43.58	87	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-DUP-02-20100630
SA-PZ-145D-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-1169.d | Sampled: 06/30/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1007009-11 | Received: 07/01/10 09:10

Dilution: 1 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 23:29

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	0.83	0.55	2.0	5.0	J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	1.0	0.53	2.0	5.0	J
67-64-1	Acetone	3.0	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	19	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.47	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP-02-20100630
SA-PZ-145D-20100630

Client: TETRA TECH | SDG 1007009 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007009-1169.d | Sampled: 06/30/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1007009-11 | Received: 07/01/10 09:10

Dilution: 1 | pH: | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 23:29

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.79	0.48	0.50	5.0	JB
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.26	89	85 - 115	
1,2-Dichloroethane-d4	50.00	52.68	105	70 - 120	
Toluene-d8	50.00	48.19	96	85 - 120	
Bromofluorobenzene	50.00	43.18	86	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

ET-MW-01S

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-0391.d | Sampled: 09/16/10 10:30

Initial/Final: 5mL / 5mL | Lab ID: 1009207-03 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 13:56

Batch: 0092809 | Sequence: 0I28002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.4	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.68	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	0.55	0.42	0.50	5.0	J

ANALYSIS DATA SHEET

SW 8260B

ET-MW-01S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0391.d Sampled: 09/16/10 10:30

Initial/Final: 5mL / 5mL Lab ID: 1009207-03 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 13:56

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	0.83	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.00	92	85 - 115	
1,2-Dichloroethane-d4	50.00	43.01	86	70 - 120	
Toluene-d8	50.00	40.61	81	85 - 120	*
Bromofluorobenzene	50.00	40.18	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

ET-MW-02S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0291.d Sampled: 09/16/10 09:25

Initial/Final: 5mL / 5mL Lab ID: 1009207-02 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 13:29

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.4	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	2.4	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.62	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

ET-MW-02S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0291.d Sampled: 09/16/10 09:25

Initial/Final: 5mL / 5mL Lab ID: 1009207-02 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 13:29

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.15	90	85 - 115	
1,2-Dichloroethane-d4	50.00	42.63	85	70 - 120	
Toluene-d8	50.00	41.17	82	85 - 120	*
Bromofluorobenzene	50.00	41.01	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

ET-MW-03S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0191.d Sampled: 09/16/10 08:25

Initial/Final: 5mL / 5mL Lab ID: 1009207-01 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 13:02

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.1	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.68	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

ET-MW-03S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0191.d Sampled: 09/16/10 08:25

Initial/Final: 5mL / 5mL Lab ID: 1009207-01 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 13:02

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.53	91	85 - 115	
1,2-Dichloroethane-d4	50.00	43.72	87	70 - 120	
Toluene-d8	50.00	40.84	82	85 - 120	*
Bromofluorobenzene	50.00	41.03	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-01S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-2059.d Sampled: 09/15/10 09:38

Initial/Final: 5mL / 5mL Lab ID: 1009182-20 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 23:19

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-01S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-2059.d Sampled: 09/15/10 09:38

Initial/Final: 5mL / 5mL Lab ID: 1009182-20 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 23:19

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.95	110	85 - 115	
1,2-Dichloroethane-d4	50.00	53.52	107	70 - 120	
Toluene-d8	50.00	56.01	112	85 - 120	
Bromofluorobenzene	50.00	59.67	119	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-011

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1959.d Sampled: 09/15/10 08:49

Initial/Final: 5mL / 5mL Lab ID: 1009182-19 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 22:51

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-01I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1959.d Sampled: 09/15/10 08:49

Initial/Final: 5mL / 5mL Lab ID: 1009182-19 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 22:51

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.12	106	85 - 115	
1,2-Dichloroethane-d4	50.00	54.98	110	70 - 120	
Toluene-d8	50.00	54.68	109	85 - 120	
Bromofluorobenzene	50.00	58.95	118	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-02S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0969.d Sampled: 09/15/10 11:15

Initial/Final: 5mL / 5mL Lab ID: 1009182-09 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 23:30

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	1.0	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	11	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone	18	1.5	5.0	13	
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.4	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	6.3	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

FC-MW-02S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0969.d Sampled: 09/15/10 11:15

Initial/Final: 5mL / 5mL Lab ID: 1009182-09 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 23:30

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	21	0.84	1.0	10	
95-47-6	o-Xylene	17	0.25	0.50	5.0	
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	4.7	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	1.5	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	18	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	39	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.55	91	85 - 115	
1,2-Dichloroethane-d4	50.00	40.35	81	70 - 120	
Toluene-d8	50.00	43.44	87	85 - 120	
Bromofluorobenzene	50.00	44.33	89	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-DUP02
FC-MW02S-20100915

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-0459.d | Sampled: 09/15/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009183-04 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092523-BLK1 | Prepared: 09/25/10 19:33

% Moisture: NA | Analyzed: 09/26/10 01:34

Batch: 0092523 | Sequence: 0125005 | Calibration: 0092903 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	16	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	11	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone	33	1.5	5.0	13	
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane	1.7	0.35	0.50	5.0	J
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.2	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	4.6	0.42	0.50	5.0	J

ANALYSIS DATA SHEET

SW 8260B

FC-DUP02
FC-MW-025-20b0915

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-0459.d | Sampled: 09/15/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009183-04 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092523-BLK1 | Prepared: 09/25/10 19:33

% Moisture: NA | Analyzed: 09/26/10 01:34

Batch: 0092523 | Sequence: 0125005 | Calibration: 0092903 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	13	0.84	1.0	10	
95-47-6	o-Xylene	12	0.25	0.50	5.0	
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	4.0	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	1.4	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	17	1.1	2.0	5.0	
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	25	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.74	107	85 - 115	
1,2-Dichloroethane-d4	50.00	54.83	110	70 - 120	
Toluene-d8	50.00	55.80	112	85 - 120	
Bromofluorobenzene	50.00	57.21	114	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FC-MW-02S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 157t1009182-09.d Sampled: 09/15/10 11:15

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-09 Received: 09/16/10 09:14

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 11:15

Batch: 0092405 Sequence: 0I24024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	270	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

RSK 175

FC-MW-02SDL

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 167t1009182-09.d Sampled: 09/15/10 11:15

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-09RE1 Received: 09/16/10 09:14

Dilution: 5 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 14:14

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	130	0.24	0.75	2.9	D
74-84-0	Ethane		0.70	1.4	5.5	U
74-85-1	Ethene		0.75	1.3	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-02I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1069.d Sampled: 09/15/10 12:40

Initial/Final: 5mL / 5mL Lab ID: 1009182-10 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 23:57

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.36	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.53	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-02I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1069.d Sampled: 09/15/10 12:40

Initial/Final: 5mL / 5mL Lab ID: 1009182-10 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 23:57

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.52	89	85 - 115	
1,2-Dichloroethane-d4	50.00	36.19	72	70 - 120	
Toluene-d8	50.00	42.91	86	85 - 120	
Bromofluorobenzene	50.00	38.43	77	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FC-MW-02I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 158t1009182-10.d Sampled: 09/15/10 12:40

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-10 Received: 09/16/10 09:14

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 11:26

Batch: 0092405 Sequence: 0I24024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.32	0.048	0.15	0.58	J
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-03S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0959.d Sampled: 09/15/10 14:45

Initial/Final: 5mL / 5mL Lab ID: 1009183-09 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 15:06

Batch: 0092601 Sequence: 0126001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.3	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	23	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

FC-MW-03S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0959.d Sampled: 09/15/10 14:45

Initial/Final: 5mL / 5mL Lab ID: 1009183-09 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 15:06

Batch: 0092601 Sequence: 0126001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	15	0.84	1.0	10	
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	13	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	1.8	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	16	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	15	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.03	112	85 - 115	
1,2-Dichloroethane-d4	50.00	56.17	112	70 - 120	
Toluene-d8	50.00	56.31	113	85 - 120	
Bromofluorobenzene	50.00	59.33	119	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FC-MW-03S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 159t1009183-09.d Sampled: 09/15/10 14:45

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009183-09 Received: 09/18/10 11:20

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 11:38

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	130	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

RSK 175

FC-MW-03SDL

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 168t1009183-09.d Sampled: 09/15/10 14:45

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009183-09RE1 Received: 09/18/10 11:20

Dilution: 5 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 14:25

Batch: 0092405 Sequence: 0I24024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	69	0.24	0.75	2.9	D
74-84-0	Ethane		0.70	1.4	5.5	U
74-85-1	Ethene		0.75	1.3	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-04S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1859.d Sampled: 09/15/10 08:45

Initial/Final: 5mL / 5mL Lab ID: 1009182-18 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 22:24

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-04S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1859.d Sampled: 09/15/10 08:45

Initial/Final: 5mL / 5mL Lab ID: 1009182-18 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 22:24

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.01	110	85 - 115	
1,2-Dichloroethane-d4	50.00	52.69	105	70 - 120	
Toluene-d8	50.00	55.99	112	85 - 120	
Bromofluorobenzene	50.00	58.31	117	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-04I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-2159.d Sampled: 09/15/10 09:45

Initial/Final: 5mL / 5mL Lab ID: 1009182-21 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 23:46

Batch: 0092523 Sequence: 0I25005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-04I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-2159.d Sampled: 09/15/10 09:45

Initial/Final: 5mL / 5mL Lab ID: 1009182-21 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 23:46

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	57.32	115	85 - 115	
1,2-Dichloroethane-d4	50.00	57.83	116	70 - 120	
Toluene-d8	50.00	56.15	112	85 - 120	
Bromofluorobenzene	50.00	57.27	115	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-05S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-12R91.d Sampled: 09/15/10 16:17

Initial/Final: 5mL / 5mL Lab ID: 1009183-12 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 17:45

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	0.89	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	0.84	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	6.8	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

FC-MW-05S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-12R91.d Sampled: 09/15/10 16:17

Initial/Final: 5mL / 5mL Lab ID: 1009183-12 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 17:45

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	2.0	0.84	1.0	10	J
95-47-6	o-Xylene	0.40	0.25	0.50	5.0	J
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	8.2	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	0.98	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	37	1.1	2.0	5.0	
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	2.4	0.25	0.50	5.0	J

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	43.99	88	85 - 115	
1,2-Dichloroethane-d4	50.00	41.49	83	70 - 120	
Toluene-d8	50.00	42.23	84	85 - 120	*
Bromofluorobenzene	50.00	39.86	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FC-MW-05S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 161t1009183-12.d Sampled: 09/15/10 16:17

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009183-12 Received: 09/18/10 11:20

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 12:00

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	420	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

RSK 175

FC-MW-05SDL

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 16911009183-12.d Sampled: 09/15/10 16:17

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009183-12RE1 Received: 09/18/10 11:20

Dilution: 10 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 14:36

Batch: 0092405 Sequence: 0I24024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	240	0.48	1.5	5.8	D
74-84-0	Ethane		1.4	2.7	11	U
74-85-1	Ethene		1.5	2.5	10	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-05I

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-10R91.d | Sampled: 09/15/10 15:26

Initial/Final: 5mL / 5mL | Lab ID: 1009183-10 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092758-BLK1 | Prepared: 09/27/10 15:50

% Moisture: NA | Analyzed: 09/27/10 17:18

Batch: 0092758 | Sequence: 0127001 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	0.50	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-05I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-10R91.d Sampled: 09/15/10 15:26

Initial/Final: 5mL / 5mL Lab ID: 1009183-10 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 17:18

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.71	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.16	88	85 - 115	
1,2-Dichloroethane-d4	50.00	40.66	81	70 - 120	
Toluene-d8	50.00	42.01	84	85 - 120	*
Bromofluorobenzene	50.00	41.38	83	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FC-MW-05I

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 160t1009183-10.d | Sampled: 09/15/10 15:26

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009183-10 | Received: 09/18/10 11:20

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092405-BLK1 | Prepared: 09/24/10 09:15

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/24/10 11:49

Batch: 0092405 | Sequence: 0124024 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.40	0.048	0.15	0.58	J
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-06S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-1159.d Sampled: 09/15/10 15:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-11 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 16:27

Batch: 0092601 Sequence: 0I26001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene	2.5	0.42	0.50	5.0	J
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-06S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-1159.d Sampled: 09/15/10 15:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-11 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 16:27

Batch: 0092601 Sequence: 0I26001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.74	111	85 - 115	
1,2-Dichloroethane-d4	50.00	59.79	120	70 - 120	
Toluene-d8	50.00	57.33	115	85 - 120	
Bromofluorobenzene	50.00	59.97	120	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-07S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0359.d Sampled: 09/15/10 12:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-03 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 01:07

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	16	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	1.4	0.42	0.50	5.0	J

ANALYSIS DATA SHEET

SW 8260B

FC-MW-07S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0359.d Sampled: 09/15/10 12:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-03 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 01:07

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	1.5	0.84	1.0	10	J
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	0.91	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	1.5	0.25	0.50	5.0	J

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.33	113	85 - 115	
1,2-Dichloroethane-d4	50.00	56.38	113	70 - 120	
Toluene-d8	50.00	56.84	114	85 - 120	
Bromofluorobenzene	50.00	58.04	116	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-07I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0259.d Sampled: 09/15/10 12:01

Initial/Final: 5mL / 5mL Lab ID: 1009183-02 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 00:40

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	17	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-07I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0259.d Sampled: 09/15/10 12:01

Initial/Final: 5mL / 5mL Lab ID: 1009183-02 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 00:40

Batch: 0092523 Sequence: 0I25005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.13	112	85 - 115	
1,2-Dichloroethane-d4	50.00	56.43	113	70 - 120	
Toluene-d8	50.00	57.62	115	85 - 120	
Bromofluorobenzene	50.00	58.59	117	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-08S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0159.d Sampled: 09/15/10 10:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-01 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 00:13

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	12	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FC-MW-08S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0159.d Sampled: 09/15/10 10:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-01 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 00:13

Batch: 0092523 Sequence: 0I25005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.26	111	85 - 115	
1,2-Dichloroethane-d4	50.00	55.01	110	70 - 120	
Toluene-d8	50.00	55.97	112	85 - 120	
Bromofluorobenzene	50.00	58.51	117	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-01S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1659.d Sampled: 09/14/10 17:24

Initial/Final: 5mL / 5mL Lab ID: 1009182-16 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 21:30

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-01S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1659.d Sampled: 09/14/10 17:24

Initial/Final: 5mL / 5mL Lab ID: 1009182-16 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 21:30

Batch: 0092523 Sequence: 0I25005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.08	108	85 - 115	
1,2-Dichloroethane-d4	50.00	53.96	108	70 - 120	
Toluene-d8	50.00	56.04	112	85 - 120	
Bromofluorobenzene	50.00	59.17	118	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-01I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1559.d Sampled: 09/14/10 16:20

Initial/Final: 5mL / 5mL Lab ID: 1009182-15 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 21:03

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-01I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1559.d Sampled: 09/14/10 16:20

Initial/Final: 5mL / 5mL Lab ID: 1009182-15 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 21:03

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.5	0.48	0.50	5.0	J
91-20-3	Naphthalene	4.2	1.1	2.0	5.0	J
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.18	106	85 - 115	
1,2-Dichloroethane-d4	50.00	50.32	101	70 - 120	
Toluene-d8	50.00	53.73	107	85 - 120	
Bromofluorobenzene	50.00	57.75	116	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-02S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0869.d Sampled: 09/14/10 15:40

Initial/Final: 5mL / 5mL Lab ID: 1009182-08 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 23:04

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	64	1.6	5.0	13	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	2.3	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	15	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone	15	1.5	5.0	13	
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	0.31	0.28	0.50	5.0	J
79-01-6	Trichloroethene	2.8	0.28	0.50	5.0	J
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.2	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	6.2	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

FT-MW-02S

Client: TETRA TECH | SDG 1009182 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009182-0869.d | Sampled: 09/14/10 15:40

Initial/Final: 5mL / 5mL | Lab ID: 1009182-08 | Received: 09/16/10 09:14

Dilution: 1 | pH: 1 | Assoc Blank: 0092522-BLK1 | Prepared: 09/25/10 17:31

% Moisture: NA | Analyzed: 09/25/10 23:04

Batch: 0092522 | Sequence: 0125001 | Calibration: 0092902 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	8.6	0.84	1.0	10	J
95-47-6	o-Xylene	13	0.25	0.50	5.0	
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	2.5	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	1.6	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	4.3	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.76	0.48	0.50	5.0	JB
91-20-3	Naphthalene	26	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	22	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	48.00	96	85 - 115	
1,2-Dichloroethane-d4	50.00	57.86	116	70 - 120	
Toluene-d8	50.00	49.10	98	85 - 120	
Bromofluorobenzene	50.00	47.57	95	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FT-MW-02S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 156t1009182-08.d Sampled: 09/14/10 15:40

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-08 Received: 09/16/10 09:14

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 11:04

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	620	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

RSK 175

FT-MW-02SDL

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 166t1009182-08.d Sampled: 09/14/10 15:40

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-08RE1 Received: 09/16/10 09:14

Dilution: 20 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 14:03

Batch: 0092405 Sequence: 0I24024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	230	0.96	3.0	12	D
74-84-0	Ethane		2.8	5.4	22	U
74-85-1	Ethene		3.0	5.0	20	U

ANALYSIS DATA SHEET

SW 8260B

FT-DUP01
FT-MW-025-20100914

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1759.d Sampled: 09/14/10 18:00

Initial/Final: 5mL / 5mL Lab ID: 1009182-17 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 21:57

Batch: 0092523 Sequence: 0I25005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	55	1.6	5.0	13	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	11	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone	12	1.5	5.0	13	J
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene	2.8	0.28	0.50	5.0	J
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	5.3	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

FT-DUP01
FT-MW-025-20100914

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1759.d Sampled: 09/14/10 18:00

Initial/Final: 5mL / 5mL Lab ID: 1009182-17 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/25/10 21:57

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	6.3	0.84	1.0	10	J
95-47-6	o-Xylene	10	0.25	0.50	5.0	
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	1.8	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	4.2	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	20	1.1	2.0	5.0	
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	16	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.47	111	85 - 115	
1,2-Dichloroethane-d4	50.00	53.12	106	70 - 120	
Toluene-d8	50.00	56.53	113	85 - 120	
Bromofluorobenzene	50.00	57.46	115	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-02I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0769.d Sampled: 09/14/10 14:25

Initial/Final: 5mL / 5mL Lab ID: 1009182-07 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 22:37

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.58	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-02I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0769.d Sampled: 09/14/10 14:25

Initial/Final: 5mL / 5mL Lab ID: 1009182-07 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 22:37

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	49.73	99	85 - 115	
1,2-Dichloroethane-d4	50.00	59.09	118	70 - 120	
Toluene-d8	50.00	48.22	96	85 - 120	
Bromofluorobenzene	50.00	53.90	108	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FT-MW-02I

Client: TETRA TECH | SDG 1009182 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 155t1009182-07.d | Sampled: 09/14/10 14:25

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009182-07 | Received: 09/16/10 09:14

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092405-BLK1 | Prepared: 09/24/10 09:15

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/24/10 10:53

Batch: 0092405 | Sequence: 0124024 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane		0.048	0.15	0.58	U
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-03

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1469.d Sampled: 09/14/10 14:59

Initial/Final: 5mL / 5mL Lab ID: 1009182-14 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 01:44

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.52	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-03

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1469.d Sampled: 09/14/10 14:59

Initial/Final: 5mL / 5mL Lab ID: 1009182-14 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 01:44

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.69	95	85 - 115	
1,2-Dichloroethane-d4	50.00	50.79	102	70 - 120	
Toluene-d8	50.00	47.92	96	85 - 120	
Bromofluorobenzene	50.00	49.78	100	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-04

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1269.d Sampled: 09/14/10 13:05

Initial/Final: 5mL / 5mL Lab ID: 1009182-12 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 00:50

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.56	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-04

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1269.d Sampled: 09/14/10 13:05

Initial/Final: 5mL / 5mL Lab ID: 1009182-12 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 00:50

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.23	92	85 - 115	
1,2-Dichloroethane-d4	50.00	41.44	83	70 - 120	
Toluene-d8	50.00	44.86	90	85 - 120	
Bromofluorobenzene	50.00	43.43	87	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-05S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0369.d Sampled: 09/14/10 09:10

Initial/Final: 5mL / 5mL Lab ID: 1009182-03 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 20:50

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-05S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0369.d Sampled: 09/14/10 09:10

Initial/Final: 5mL / 5mL Lab ID: 1009182-03 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 20:50

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	48.21	96	85 - 115	
1,2-Dichloroethane-d4	50.00	51.79	104	70 - 120	
Toluene-d8	50.00	48.49	97	85 - 120	
Bromofluorobenzene	50.00	50.07	100	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FT-MW-05S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 15111009182-03.d Sampled: 09/14/10 09:10

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-03 Received: 09/16/10 09:14

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 10:15

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane		0.048	0.15	0.58	U
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-05I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0669.d Sampled: 09/14/10 10:15

Initial/Final: 5mL / 5mL Lab ID: 1009182-06 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 22:10

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform	0.52	0.27	0.50	5.0	J
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-05I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0669.d Sampled: 09/14/10 10:15

Initial/Final: 5mL / 5mL Lab ID: 1009182-06 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 22:10

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	48.37	97	85 - 115	
1,2-Dichloroethane-d4	50.00	57.71	115	70 - 120	
Toluene-d8	50.00	50.19	100	85 - 120	
Bromofluorobenzene	50.00	54.07	108	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FT-MW-05I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 154t1009182-06.d Sampled: 09/14/10 10:15

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-06 Received: 09/16/10 09:14

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 10:42

Batch: 0092405 Sequence: 0I24024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.45	0.048	0.15	0.58	J
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-06S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1369.d Sampled: 09/14/10 13:25

Initial/Final: 5mL / 5mL Lab ID: 1009182-13 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 01:17

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1*	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-06S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1369.d Sampled: 09/14/10 13:25

Initial/Final: 5mL / 5mL Lab ID: 1009182-13 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 01:17

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.45	95	85 - 115	
1,2-Dichloroethane-d4	50.00	46.92	94	70 - 120	
Toluene-d8	50.00	47.02	94	85 - 120	
Bromofluorobenzene	50.00	48.40	97	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-06I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0169.d Sampled: 09/14/10 12:18

Initial/Final: 5mL / 5mL Lab ID: 1009182-01 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 19:02

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform	0.51	0.27	0.50	5.0	J
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.57	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-06I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0169.d Sampled: 09/14/10 12:18

Initial/Final: 5mL / 5mL Lab ID: 1009182-01 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 19:02

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	1.2	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.70	93	85 - 115	
1,2-Dichloroethane-d4	50.00	47.03	94	70 - 120	
Toluene-d8	50.00	46.39	93	85 - 120	
Bromofluorobenzene	50.00	46.21	92	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-07S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-1169.d Sampled: 09/14/10 11:35

Initial/Final: 5mL / 5mL Lab ID: 1009182-11 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/26/10 00:23

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.16	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-07S

Client: TETRA TECH | SDG 1009182 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009182-1169.d | Sampled: 09/14/10 11:35

Initial/Final: 5mL / 5mL | Lab ID: 1009182-11 | Received: 09/16/10 09:14

Dilution: 1 | pH: 1 | Assoc Blank: 0092522-BLK1 | Prepared: 09/25/10 17:31

% Moisture: NA | Analyzed: 09/26/10 00:23

Batch: 0092522 | Sequence: 0125001 | Calibration: 0092902 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.72	91	85 - 115	
1,2-Dichloroethane-d4	50.00	38.16	76	70 - 120	
Toluene-d8	50.00	43.31	87	85 - 120	
Bromofluorobenzene	50.00	40.66	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-08S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0469.d Sampled: 09/14/10 09:16

Initial/Final: 5mL / 5mL Lab ID: 1009182-04 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 21:17

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-08S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0469.d Sampled: 09/14/10 09:16

Initial/Final: 5mL / 5mL Lab ID: 1009182-04 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 21:17

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.65	95	85 - 115	
1,2-Dichloroethane-d4	50.00	53.87	108	70 - 120	
Toluene-d8	50.00	48.91	98	85 - 120	
Bromofluorobenzene	50.00	52.31	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FT-MW-08S

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 152t1009182-04.d Sampled: 09/14/10 09:16

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-04 Received: 09/16/10 09:14

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 10:20

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	11	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

FT-MW-08I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0569.d Sampled: 09/14/10 10:11

Initial/Final: 5mL / 5mL Lab ID: 1009182-05 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 21:44

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	2.2	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.51	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

FT-MW-08I

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0569.d Sampled: 09/14/10 10:11

Initial/Final: 5mL / 5mL Lab ID: 1009182-05 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 21:44

Batch: 0092522 Sequence: 0I25001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene	0.90	0.25	0.50	5.0	J
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	0.66	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	2.5	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	1.8	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	0.90	0.25	0.50	5.0	J

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.24	94	85 - 115	
1,2-Dichloroethane-d4	50.00	54.06	108	70 - 120	
Toluene-d8	50.00	49.00	98	85 - 120	
Bromofluorobenzene	50.00	50.87	102	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

FT-MW-08I

Client: TETRA TECH | SDG 1009182 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 153t1009182-05.d | Sampled: 09/14/10 10:11

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009182-05 | Received: 09/16/10 09:14

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092405-BLK1 | Prepared: 09/24/10 09:15

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/24/10 10:31

Batch: 0092405 | Sequence: 0124024 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	100	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

RSK 175

FT-MW-08IDL

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 165t1009182-05.d Sampled: 09/14/10 10:11

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009182-05RE1 Received: 09/16/10 09:14

Dilution: 2 pH: Florisil Cleanup: N Assoc Blank: 0092405-BLK1 Prepared: 09/24/10 09:15

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/24/10 13:57

Batch: 0092405 Sequence: 0124024 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	37	0.096	0.30	1.2	D
74-84-0	Ethane		0.28	0.54	2.2	U
74-85-1	Ethene		0.30	0.50	2.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-126S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0659.d Sampled: 09/16/10 12:01

Initial/Final: 5mL / 5mL Lab ID: 1009183-06 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 02:28

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	14	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-126S

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-0659.d | Sampled: 09/16/10 12:01

Initial/Final: 5mL / 5mL | Lab ID: 1009183-06 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092523-BLK1 | Prepared: 09/25/10 19:33

% Moisture: NA | Analyzed: 09/26/10 02:28

Batch: 0092523 | Sequence: 0125005 | Calibration: 0092903 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.50	107	85 - 115	
1,2-Dichloroethane-d4	50.00	51.85	104	70 - 120	
Toluene-d8	50.00	56.50	113	85 - 120	
Bromofluorobenzene	50.00	56.55	113	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-126I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0559.d Sampled: 09/16/10 12:54

Initial/Final: 5mL / 5mL Lab ID: 1009183-05 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092523-BLK1 Prepared: 09/25/10 19:33

% Moisture: NA Analyzed: 09/26/10 02:01

Batch: 0092523 Sequence: 0125005 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	15	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.58	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-126I

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-0559.d | Sampled: 09/16/10 12:54

Initial/Final: 5mL / 5mL | Lab ID: 1009183-05 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092523-BLK1 | Prepared: 09/25/10 19:33

% Moisture: NA | Analyzed: 09/26/10 02:01

Batch: 0092523 | Sequence: 0I25005 | Calibration: 0092903 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U J
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.34	111	85 - 115	
1,2-Dichloroethane-d4	50.00	50.57	101	70 - 120	
Toluene-d8	50.00	55.72	111	85 - 120	
Bromofluorobenzene	50.00	56.23	112	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-126D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-07R59.d Sampled: 09/16/10 11:10

Initial/Final: 5mL / 5mL Lab ID: 1009183-07 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 15:33

Batch: 0092601 Sequence: 0126001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-126D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-07R59.d Sampled: 09/16/10 11:10

Initial/Final: 5mL / 5mL Lab ID: 1009183-07 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 15:33

Batch: 0092601 Sequence: 0126001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.65	109	85 - 115	
1,2-Dichloroethane-d4	50.00	59.94	120	70 - 120	
Toluene-d8	50.00	56.92	114	85 - 120	
Bromofluorobenzene	50.00	59.98	120	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-127S

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-16R91.d | Sampled: 09/16/10 14:30

Initial/Final: 5mL / 5mL | Lab ID: 1009183-16 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092758-BLK1 | Prepared: 09/27/10 15:50

% Moisture: NA | Analyzed: 09/27/10 19:33

Batch: 0092758 | Sequence: 0127001 | Calibration: 0092910 | Instrument: 5975bpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-127S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-16R91.d Sampled: 09/16/10 14:30

Initial/Final: 5mL / 5mL Lab ID: 1009183-16 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 19:33

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.67	91	85 - 115	
1,2-Dichloroethane-d4	50.00	41.84	84	70 - 120	
Toluene-d8	50.00	41.88	84	85 - 120	*
Bromofluorobenzene	50.00	40.83	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-MW-127S

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 164t1009183-16.d | Sampled: 09/16/10 14:30

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009183-16 | Received: 09/18/10 11:20

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092405-BLK1 | Prepared: 09/24/10 09:15

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/24/10 12:33

Batch: 0092405 | Sequence: 0I24024 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.39	0.048	0.15	0.58	J
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-127I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-15R91.d Sampled: 09/16/10 13:20

Initial/Final: 5mL / 5mL Lab ID: 1009183-15 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 19:06

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	9.1	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.2	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-127I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-15R91.d Sampled: 09/16/10 13:20

Initial/Final: 5mL / 5mL Lab ID: 1009183-15 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 19:06

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.18	90	85 - 115	
1,2-Dichloroethane-d4	50.00	41.46	83	70 - 120	
Toluene-d8	50.00	41.06	82	85 - 120	*
Bromofluorobenzene	50.00	40.61	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP03-20100916
SA-MW-127I-20100916

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-0491.d | Sampled: 09/16/10 18:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-04 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 14:23

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.4	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	9.3	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.1	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.69	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP03-20100916
SA-MW-127I-20100916

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-0491.d | Sampled: 09/16/10 18:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-04 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 14:23

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.05	90	85 - 115	
1,2-Dichloroethane-d4	50.00	42.00	84	70 - 120	
Toluene-d8	50.00	41.31	83	85 - 120	*
Bromofluorobenzene	50.00	40.42	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-MW-127I

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 163t1009183-15.d | Sampled: 09/16/10 13:20

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009183-15 | Received: 09/18/10 11:20

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092405-BLK1 | Prepared: 09/24/10 09:15

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/24/10 12:22

Batch: 0092405 | Sequence: 0I24024 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	15	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-127D

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-14R91.d | Sampled: 09/16/10 11:50

Initial/Final: 5mL / 5mL | Lab ID: 1009183-14 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092758-BLK1 | Prepared: 09/27/10 15:50

% Moisture: NA | Analyzed: 09/27/10 18:39

Batch: 0092758 | Sequence: 0I27001 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-127D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-14R91.d Sampled: 09/16/10 11:50

Initial/Final: 5mL / 5mL Lab ID: 1009183-14 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 18:39

Batch: 0092758 Sequence: 0I27001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.33	89	85 - 115	
1,2-Dichloroethane-d4	50.00	40.88	82	70 - 120	
Toluene-d8	50.00	42.12	84	85 - 120	*
Bromofluorobenzene	50.00	40.22	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-MW-127D

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 162t1009183-14.d | Sampled: 09/16/10 11:50

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009183-14 | Received: 09/18/10 11:20

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092405-BLK1 | Prepared: 09/24/10 09:15

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/24/10 12:11

Batch: 0092405 | Sequence: 0124024 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.97	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-128S

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-18R91.d | Sampled: 09/16/10 15:45

Initial/Final: 5mL / 5mL | Lab ID: 1009183-18 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092758-BLK1 | Prepared: 09/27/10 15:50

% Moisture: NA | Analyzed: 09/27/10 20:27

Batch: 0092758 | Sequence: 0I27001 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-128S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-18R91.d Sampled: 09/16/10 15:45

Initial/Final: 5mL / 5mL Lab ID: 1009183-18 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 20:27

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.69	91	85 - 115	
1,2-Dichloroethane-d4	50.00	41.52	83	70 - 120	
Toluene-d8	50.00	41.59	83	85 - 120	*
Bromofluorobenzene	50.00	40.25	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-128I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0591.d Sampled: 09/17/10 08:40

Initial/Final: 5mL / 5mL Lab ID: 1009207-05 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 14:50

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.7	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	10	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.1	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.65	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-128I

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-0591.d | Sampled: 09/17/10 08:40

Initial/Final: 5mL / 5mL | Lab ID: 1009207-05 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 14:50

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.75	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.87	86	70 - 120	
Toluene-d8	50.00	41.49	83	85 - 120	*
Bromofluorobenzene	50.00	40.35	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-128D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-17R91.d Sampled: 09/16/10 14:51

Initial/Final: 5mL / 5mL Lab ID: 1009183-17 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 20:00

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.8	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.6	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-128D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-17R91.d Sampled: 09/16/10 14:51

Initial/Final: 5mL / 5mL Lab ID: 1009183-17 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 20:00

Batch: 0092758 Sequence: 0I27001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.21	90	85 - 115	
1,2-Dichloroethane-d4	50.00	40.78	82	70 - 120	
Toluene-d8	50.00	41.55	83	85 - 120	*
Bromofluorobenzene	50.00	40.14	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-129S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0791.d Sampled: 09/17/10 09:45

Initial/Final: 5mL / 5mL Lab ID: 1009207-07 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 15:44

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	3.2	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.69	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-129S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0791.d Sampled: 09/17/10 09:45

Initial/Final: 5mL / 5mL Lab ID: 1009207-07 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 15:44

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.96	92	85 - 115	
1,2-Dichloroethane-d4	50.00	42.52	85	70 - 120	
Toluene-d8	50.00	41.16	82	85 - 120	*
Bromofluorobenzene	50.00	40.72	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-129I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0691.d Sampled: 09/17/10 08:35

Initial/Final: 5mL / 5mL Lab ID: 1009207-06 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 15:17

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	2.8	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.4	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.61	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-129I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0691.d Sampled: 09/17/10 08:35

Initial/Final: 5mL / 5mL Lab ID: 1009207-06 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 15:17

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.70	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.77	86	70 - 120	
Toluene-d8	50.00	40.77	82	85 - 120	*
Bromofluorobenzene	50.00	40.31	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-129D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-19R91.d Sampled: 09/16/10 15:50

Initial/Final: 5mL / 5mL Lab ID: 1009183-19 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 20:54

Batch: 0092758 Sequence: 0I27001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-129D

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-19R91.d Sampled: 09/16/10 15:50

Initial/Final: 5mL / 5mL Lab ID: 1009183-19 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 20:54

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.10	90	85 - 115	
1,2-Dichloroethane-d4	50.00	41.37	83	70 - 120	
Toluene-d8	50.00	41.52	83	85 - 120	*
Bromofluorobenzene	50.00	41.17	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-130S

Client: TETRA TECH | SDG 1009183 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009183-21R91.d | Sampled: 09/16/10 09:34

Initial/Final: 5mL / 5mL | Lab ID: 1009183-21 | Received: 09/18/10 11:20

Dilution: 1 | pH: 1 | Assoc Blank: 0092758-BLK1 | Prepared: 09/27/10 15:50

% Moisture: NA | Analyzed: 09/27/10 21:48

Batch: 0092758 | Sequence: 0127001 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-130S

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-21R91.d Sampled: 09/16/10 09:34

Initial/Final: 5mL / 5mL Lab ID: 1009183-21 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 21:48

Batch: 0092758 Sequence: 0I27001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.33	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.66	85	70 - 120	
Toluene-d8	50.00	41.62	83	85 - 120	*
Bromofluorobenzene	50.00	40.49	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-130I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-20R91.d Sampled: 09/16/10 08:42

Initial/Final: 5mL / 5mL Lab ID: 1009183-20 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 21:21

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.62	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-130I

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-20R91.d Sampled: 09/16/10 08:42

Initial/Final: 5mL / 5mL Lab ID: 1009183-20 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 21:21

Batch: 0092758 Sequence: 0I27001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.39	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.18	84	70 - 120	
Toluene-d8	50.00	41.46	83	85 - 120	*
Bromofluorobenzene	50.00	40.30	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-131S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0891.d Sampled: 09/21/10 10:55

Initial/Final: 5mL / 5mL Lab ID: 1009221-08 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 05:32

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.71	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-131S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0891.d Sampled: 09/21/10 10:55

Initial/Final: 5mL / 5mL Lab ID: 1009221-08 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 05:32

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.34	95	85 - 115	
1,2-Dichloroethane-d4	50.00	44.31	89	70 - 120	
Toluene-d8	50.00	41.47	83	85 - 120	*
Bromofluorobenzene	50.00	39.58	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-MW-131S

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 182t1009221-08.d | Sampled: 09/21/10 10:55

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-08 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 11:36

Batch: 0092808 | Sequence: 0I29006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	4.2	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-131I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0791.d Sampled: 09/21/10 09:50

Initial/Final: 5mL / 5mL Lab ID: 1009221-07 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 05:05

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	13	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	130	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	18	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-131I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0791.d Sampled: 09/21/10 09:50

Initial/Final: 5mL / 5mL Lab ID: 1009221-07 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 05:05

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.94	94	85 - 115	
1,2-Dichloroethane-d4	50.00	43.55	87	70 - 120	
Toluene-d8	50.00	41.36	83	85 - 120	*
Bromofluorobenzene	50.00	39.03	78	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-MW-131I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 181t1009221-07.d Sampled: 09/21/10 09:50

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009221-07 Received: 09/23/10 09:10

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092808-BLK1 Prepared: 09/28/10 09:22

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/28/10 11:25

Batch: 0092808 Sequence: 0129006 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	54	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-131D

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0691.d Sampled: 09/21/10 08:30

Initial/Final: 5mL / 5mL Lab ID: 1009221-06 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 04:38

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	2.3	0.53	2.0	5.0	J
67-64-1	Acetone	3.1	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	13	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.59	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-131D

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0691.d Sampled: 09/21/10 08:30

Initial/Final: 5mL / 5mL Lab ID: 1009221-06 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 04:38

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.05	94	85 - 115	
1,2-Dichloroethane-d4	50.00	43.68	87	70 - 120	
Toluene-d8	50.00	41.05	82	85 - 120	*
Bromofluorobenzene	50.00	39.32	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

RSK 175

SA-MW-131D

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 180t1009221-06.d Sampled: 09/21/10 08:30

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009221-06 Received: 09/23/10 09:10

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092808-BLK1 Prepared: 09/28/10 09:22

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/28/10 11:14

Batch: 0092808 Sequence: 0129006 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	63	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

RSK 175

SA-MW-131DDL

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 187t1009221-06.d | Sampled: 09/21/10 08:30

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-06RE1 | Received: 09/23/10 09:10

Dilution: 2 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 12:47

Batch: 0092808 | Sequence: 0129006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	29	0.096	0.30	1.2	D
74-84-0	Ethane		0.28	0.54	2.2	U
74-85-1	Ethene		0.30	0.50	2.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-132S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1691.d Sampled: 09/21/10 08:45

Initial/Final: 5mL / 5mL Lab ID: 1009207-16 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 20:42

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	25	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.1	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.45	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-132S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1691.d Sampled: 09/21/10 08:45

Initial/Final: 5mL / 5mL Lab ID: 1009207-16 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 20:42

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.34	93	85 - 115	
1,2-Dichloroethane-d4	50.00	43.21	86	70 - 120	
Toluene-d8	50.00	41.94	84	85 - 120	*
Bromofluorobenzene	50.00	41.02	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-132I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1791.d Sampled: 09/21/10 09:42

Initial/Final: 5mL / 5mL Lab ID: 1009207-17 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 21:09

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	49	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	3.4	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-MW-132I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1791.d Sampled: 09/21/10 09:42

Initial/Final: 5mL / 5mL Lab ID: 1009207-17 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 21:09

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.54	93	85 - 115	
1,2-Dichloroethane-d4	50.00	43.04	86	70 - 120	
Toluene-d8	50.00	41.19	82	85 - 120	*
Bromofluorobenzene	50.00	40.87	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-118S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0391.d Sampled: 09/20/10 10:14

Initial/Final: 5mL / 5mL Lab ID: 1009221-03 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 03:17

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.71	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-118S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0391.d Sampled: 09/20/10 10:14

Initial/Final: 5mL / 5mL Lab ID: 1009221-03 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 03:17

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.56	91	85 - 115	
1,2-Dichloroethane-d4	50.00	44.09	88	70 - 120	
Toluene-d8	50.00	40.23	80	85 - 120	*
Bromofluorobenzene	50.00	39.50	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-118S

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 177t1009221-03.d | Sampled: 09/20/10 10:14

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-03 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 10:41

Batch: 0092808 | Sequence: 0129006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	520	0.048	0.15	0.58	E
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-118SDL

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 186t1009221-03.d Sampled: 09/20/10 10:14

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009221-03RE1 Received: 09/23/10 09:10

Dilution: 10 pH: Florisil Cleanup: N Assoc Blank: 0092808-BLK1 Prepared: 09/28/10 09:22

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/28/10 12:41

Batch: 0092808 Sequence: 0129006 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	150	0.48	1.5	5.8	D
74-84-0	Ethane		1.4	2.7	11	U
74-85-1	Ethene		1.5	2.5	10	U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-118I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0191.d Sampled: 09/20/10 09:16

Initial/Final: 5mL / 5mL Lab ID: 1009221-01 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 02:22

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.73	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-118I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0191.d Sampled: 09/20/10 09:16

Initial/Final: 5mL / 5mL Lab ID: 1009221-01 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 02:22

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.35	93	85 - 115	
1,2-Dichloroethane-d4	50.00	43.42	87	70 - 120	
Toluene-d8	50.00	40.56	81	85 - 120	*
Bromofluorobenzene	50.00	39.95	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-118I

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 175t1009221-01.d | Sampled: 09/20/10 09:16

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-01 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 10:24

Batch: 0092808 | Sequence: 0129006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane		0.048	0.15	0.58	U
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-120S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1291.d Sampled: 09/20/10 12:55

Initial/Final: 5mL / 5mL Lab ID: 1009207-12 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 17:59

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	11	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.49	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-120S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1291.d Sampled: 09/20/10 12:55

Initial/Final: 5mL / 5mL Lab ID: 1009207-12 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 17:59

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.94	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.79	92	85 - 115	
1,2-Dichloroethane-d4	50.00	42.02	84	70 - 120	
Toluene-d8	50.00	41.29	83	85 - 120	*
Bromofluorobenzene	50.00	40.85	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-122S

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-1091.d | Sampled: 09/20/10 11:51

Initial/Final: 5mL / 5mL | Lab ID: 1009207-10 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 17:05

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	5.3	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.68	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-122S

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1091.d Sampled: 09/20/10 11:51

Initial/Final: 5mL / 5mL Lab ID: 1009207-10 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 17:05

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.70	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.63	85	70 - 120	
Toluene-d8	50.00	41.46	83	85 - 120	*
Bromofluorobenzene	50.00	39.62	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-PZ-122I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1391.d Sampled: 09/20/10 13:48

Initial/Final: 5mL / 5mL Lab ID: 1009207-13 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 18:26

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	1.2	0.53	2.0	5.0	J
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	11	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	9.7	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.51	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-122I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1391.d Sampled: 09/20/10 13:48

Initial/Final: 5mL / 5mL Lab ID: 1009207-13 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 18:26

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.70	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.05	84	70 - 120	
Toluene-d8	50.00	41.82	84	85 - 120	*
Bromofluorobenzene	50.00	40.15	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-122D

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-1191.d | Sampled: 09/20/10 12:52

Initial/Final: 5mL / 5mL | Lab ID: 1009207-11 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 17:32

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	10	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.3	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.39	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-122D

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1191.d Sampled: 09/20/10 12:52

Initial/Final: 5mL / 5mL Lab ID: 1009207-11 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 17:32

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.43	93	85 - 115	
1,2-Dichloroethane-d4	50.00	43.15	86	70 - 120	
Toluene-d8	50.00	41.20	82	85 - 120	*
Bromofluorobenzene	50.00	39.75	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-123S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0591.d Sampled: 09/20/10 11:30

Initial/Final: 5mL / 5mL Lab ID: 1009221-05 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 04:11

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform	1.3	0.27	0.50	5.0	J
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.57	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-123S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0591.d Sampled: 09/20/10 11:30

Initial/Final: 5mL / 5mL Lab ID: 1009221-05 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 04:11

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.57	93	85 - 115	
1,2-Dichloroethane-d4	50.00	42.58	85	70 - 120	
Toluene-d8	50.00	41.06	82	85 - 120	*
Bromofluorobenzene	50.00	39.25	78	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-123S

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 179t1009221-05.d | Sampled: 09/20/10 11:30

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-05 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 11:03

Batch: 0092808 | Sequence: 0129006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	50	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-123I1

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0491.d Sampled: 09/20/10 10:20

Initial/Final: 5mL / 5mL Lab ID: 1009221-04 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 03:44

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.77	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-123I1

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0491.d Sampled: 09/20/10 10:20

Initial/Final: 5mL / 5mL Lab ID: 1009221-04 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 03:44

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.09	94	85 - 115	
1,2-Dichloroethane-d4	50.00	44.25	88	70 - 120	
Toluene-d8	50.00	41.18	82	85 - 120	*
Bromofluorobenzene	50.00	39.24	78	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-123I1

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 178t1009221-04.d Sampled: 09/20/10 10:20

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009221-04 Received: 09/23/10 09:10

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092808-BLK1 Prepared: 09/28/10 09:22

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/28/10 10:52

Batch: 0092808 Sequence: 0I29006 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1.8	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-PZ-123I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0291.d Sampled: 09/20/10 09:20

Initial/Final: 5mL / 5mL Lab ID: 1009221-02 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 02:50

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	6.9	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	42	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.59	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.79	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-123I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0291.d Sampled: 09/20/10 09:20

Initial/Final: 5mL / 5mL Lab ID: 1009221-02 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 02:50

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.66	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.48	93	85 - 115	
1,2-Dichloroethane-d4	50.00	42.89	86	70 - 120	
Toluene-d8	50.00	40.82	82	85 - 120	*
Bromofluorobenzene	50.00	38.57	77	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-DUP04-20100920
SA-PZ-12311-20100920

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-1591.d | Sampled: 09/20/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-15 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 20:15

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	21	0.49	0.50	5.0	
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.45	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP04-20100920
SA-PZ-1231-20100920

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-1591.d | Sampled: 09/20/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-15 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092809-BLK1 | Prepared: 09/28/10 11:47

% Moisture: NA | Analyzed: 09/28/10 20:15

Batch: 0092809 | Sequence: 0128002 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.92	92	85 - 115	
1,2-Dichloroethane-d4	50.00	41.11	82	70 - 120	
Toluene-d8	50.00	41.66	83	85 - 120	*
Bromofluorobenzene	50.00	39.92	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-123I

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 176t1009221-02.d | Sampled: 09/20/10 09:20

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-02 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 10:29

Batch: 0092808 | Sequence: 0129006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	18	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-140

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1991.d Sampled: 09/21/10 11:00

Initial/Final: 5mL / 5mL Lab ID: 1009207-19 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 00:35

Batch: 0092823 Sequence: 0128021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	14	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	6.7	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	93	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	9.0	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.62	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-140

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-1991.d | Sampled: 09/21/10 11:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-19 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092823-BLK1 | Prepared: 09/28/10 23:12

% Moisture: NA | Analyzed: 09/29/10 00:35

Batch: 0092823 | Sequence: 0128021 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene	0.62	0.36	0.50	5.0	J
106-46-7	1,4-Dichlorobenzene	2.2	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	0.64	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.9	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.94	102	85 - 115	
1,2-Dichloroethane-d4	50.00	46.07	92	70 - 120	
Toluene-d8	50.00	45.55	91	85 - 120	
Bromofluorobenzene	50.00	44.01	88	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP05-20100921
SA-PZ-140-20100921

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-2091.d | Sampled: 09/21/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-20 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092823-BLK1 | Prepared: 09/28/10 23:12

% Moisture: NA | Analyzed: 09/29/10 01:01

Batch: 0092823 | Sequence: 0128021 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	15	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	7.8	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	100	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	10	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP05-20100921
SA-PZ-140-20100921

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-2091.d | Sampled: 09/21/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-20 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092823-BLK1 | Prepared: 09/28/10 23:12

% Moisture: NA | Analyzed: 09/29/10 01:01

Batch: 0092823 | Sequence: 0128021 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene	0.50	0.36	0.50	5.0	J
106-46-7	1,4-Dichlorobenzene	2.1	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	0.47	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.4	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.46	93	85 - 115	
1,2-Dichloroethane-d4	50.00	42.27	85	70 - 120	
Toluene-d8	50.00	41.32	83	85 - 120	*
Bromofluorobenzene	50.00	39.55	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-143

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1491.d Sampled: 09/20/10 15:45

Initial/Final: 5mL / 5mL Lab ID: 1009207-14 Received: 09/22/10 09:00

Dilution: 5 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 19:47

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		1.6	2.5	25	U
74-87-3	Chloromethane		2.0	2.5	25	U
75-01-4	Vinyl chloride		2.4	2.5	25	U
74-83-9	Bromomethane		3.8	10	25	U
75-00-3	Chloroethane		2.8	10	25	U
75-69-4	Trichlorofluoromethane		2.5	2.5	25	U
75-35-4	1,1-Dichloroethene	52	2.7	10	25	D
67-64-1	Acetone		8.0	25	63	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		4.1	10	25	U
75-15-0	Carbon disulfide		0.80	2.5	25	U
79-20-9	Methyl acetate		4.3	10	25	U
75-09-2	Methylene chloride	130	2.5	2.5	25	D
156-60-5	trans-1,2-Dichloroethene		2.2	2.5	25	U
1634-04-4	Methyl tert-butyl ether		1.1	2.5	25	U
75-34-3	1,1-Dichloroethane	600	1.4	2.5	25	D
156-59-2	cis-1,2-Dichloroethene		3.3	10	25	U
78-93-3	2-Butanone		7.5	25	63	U
67-66-3	Chloroform		1.4	2.5	25	U
71-55-6	1,1,1-Trichloroethane	110	1.6	2.5	25	D
110-82-7	Cyclohexane		2.3	2.5	25	U
563-58-6	1,1-Dichloropropene		2.1	2.5	25	U
56-23-5	Carbon tetrachloride		1.6	2.5	25	U
107-06-2	1,2-Dichloroethane		1.2	2.5	25	U
71-43-2	Benzene		1.4	2.5	25	U
79-01-6	Trichloroethene		1.4	2.5	25	U
108-87-2	Methylcyclohexane		1.8	2.5	25	U
78-87-5	1,2-Dichloropropane		4.3	10	25	U
75-27-4	Bromodichloromethane		1.8	2.5	25	U
10061-01-5	cis-1,3-Dichloropropene		2.6	10	25	U
108-10-1	4-Methyl-2-pentanone		5.5	6.3	63	U
108-88-3	Toluene	2.3	1.6	2.5	25	JD
10061-02-6	trans-1,3-Dichloropropene		2.3	2.5	25	U
79-00-5	1,1,2-Trichloroethane		2.6	10	25	U
127-18-4	Tetrachloroethene		2.1	2.5	25	U
591-78-6	2-Hexanone		6.0	6.3	63	U
124-48-1	Dibromochloromethane		1.6	2.5	25	U
106-93-4	1,2-Dibromoethane		2.2	2.5	25	U
108-90-7	Chlorobenzene		1.4	2.5	25	U
100-41-4	Ethylbenzene		2.1	2.5	25	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-143

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1491.d Sampled: 09/20/10 15:45

Initial/Final: 5mL / 5mL Lab ID: 1009207-14 Received: 09/22/10 09:00

Dilution: 5 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 19:47

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		4.2	5.0	50	U
95-47-6	o-Xylene		1.3	2.5	25	U
100-42-5	Styrene		1.8	2.5	25	U
75-25-2	Bromoform		4.8	10	25	U
98-82-8	Isopropylbenzene		1.4	2.5	25	U
79-34-5	1,1,2,2-Tetrachloroethane		3.2	10	25	U
541-73-1	1,3-Dichlorobenzene		1.8	2.5	25	U
106-46-7	1,4-Dichlorobenzene		1.5	2.5	25	U
95-50-1	1,2-Dichlorobenzene		1.8	2.5	25	U
96-12-8	1,2-Dibromo-3-chloropropane		4.6	10	25	U
120-82-1	1,2,4-Trichlorobenzene	7.1	2.4	2.5	25	JD
91-20-3	Naphthalene		5.5	10	25	U
540-59-0	1,2-Dichloroethene (total)		2.2	2.5	25	U
1330-20-7	Xylenes (total)		1.3	2.5	25	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.82	92	85 - 115	
1,2-Dichloroethane-d4	50.00	41.89	84	70 - 120	
Toluene-d8	50.00	41.01	82	85 - 120	*
Bromofluorobenzene	50.00	39.56	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1091.d Sampled: 09/21/10 12:22

Initial/Final: 5mL / 5mL Lab ID: 1009221-10 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 06:26

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.63	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145S

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1091.d Sampled: 09/21/10 12:22

Initial/Final: 5mL / 5mL Lab ID: 1009221-10 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 06:26

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.91	94	85 - 115	
1,2-Dichloroethane-d4	50.00	43.03	86	70 - 120	
Toluene-d8	50.00	40.66	81	85 - 120	*
Bromofluorobenzene	50.00	38.16	76	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-145S

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 184t1009221-10.d | Sampled: 09/21/10 12:22

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-10 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 11:58

Batch: 0092808 | Sequence: 0129006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	7.6	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1191.d Sampled: 09/21/10 13:25

Initial/Final: 5mL / 5mL Lab ID: 1009221-11 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 06:53

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	4.5	0.55	2.0	5.0	J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	8.4	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	66	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	6.1	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.65	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1191.d Sampled: 09/21/10 13:25

Initial/Final: 5mL / 5mL Lab ID: 1009221-11 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 06:53

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.1	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.09	94	85 - 115	
1,2-Dichloroethane-d4	50.00	43.76	88	70 - 120	
Toluene-d8	50.00	41.04	82	85 - 120	*
Bromofluorobenzene	50.00	38.65	77	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP06-20100921
SA-PZ-145I-20100921

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-2191.d | Sampled: 09/21/10 16:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-21 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092823-BLK1 | Prepared: 09/28/10 23:12

% Moisture: NA | Analyzed: 09/29/10 01:28

Batch: 0092823 | Sequence: 0128021 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	4.1	0.55	2.0	5.0	J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	8.7	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	69	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	5.9	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP06-20100921
SA-PZ-145I-20100921

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-2191.d | Sampled: 09/21/10 16:00

Initial/Final: 5mL / 5mL | Lab ID: 1009207-21 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092823-BLK1 | Prepared: 09/28/10 23:12

% Moisture: NA | Analyzed: 09/29/10 01:28

Batch: 0092823 | Sequence: 0128021 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.3	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.00	94	85 - 115	
1,2-Dichloroethane-d4	50.00	43.24	86	70 - 120	
Toluene-d8	50.00	41.39	83	85 - 120	*
Bromofluorobenzene	50.00	40.03	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-145I

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Extraction: GC-RSK File ID: 185t1009221-11.d Sampled: 09/21/10 13:25

Initial/Final: 1mL / 1mL Sulfur Cleanup: N Lab ID: 1009221-11 Received: 09/23/10 09:10

Dilution: 1 pH: Florisil Cleanup: N Assoc Blank: 0092808-BLK1 Prepared: 09/28/10 09:22

% Moisture: NA GPC Cleanup: N GPC Cleanup Factor: N Analyzed: 09/28/10 12:09

Batch: 0092808 Sequence: 0129006 Calibration: 0070106 Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	5.6	0.048	0.15	0.58	
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-145D

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0991.d Sampled: 09/21/10 12:15

Initial/Final: 5mL / 5mL Lab ID: 1009221-09 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 05:59

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	2.0	0.53	2.0	5.0	J
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	19	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-145D

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-0991.d Sampled: 09/21/10 12:15

Initial/Final: 5mL / 5mL Lab ID: 1009221-09 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 05:59

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.30	95	85 - 115	
1,2-Dichloroethane-d4	50.00	44.45	89	70 - 120	
Toluene-d8	50.00	41.24	82	85 - 120	*
Bromofluorobenzene	50.00	39.56	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

RSK 175

SA-PZ-145D

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Extraction: GC-RSK | File ID: 183t1009221-09.d | Sampled: 09/21/10 12:15

Initial/Final: 1mL / 1mL | Sulfur Cleanup: N | Lab ID: 1009221-09 | Received: 09/23/10 09:10

Dilution: 1 | pH: | Florisil Cleanup: N | Assoc Blank: 0092808-BLK1 | Prepared: 09/28/10 09:22

% Moisture: NA | GPC Cleanup: N | GPC Cleanup Factor: N | Analyzed: 09/28/10 11:47

Batch: 0092808 | Sequence: 0I29006 | Calibration: 0070106 | Instrument: varian67

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.47	0.048	0.15	0.58	J
74-84-0	Ethane		0.14	0.27	1.1	U
74-85-1	Ethene		0.15	0.25	1.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-166I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0891.d Sampled: 09/17/10 10:05

Initial/Final: 5mL / 5mL Lab ID: 1009207-08 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 16:11

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	2.7	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.64	0.31	0.50	5.0	J
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-166I

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0891.d Sampled: 09/17/10 10:05

Initial/Final: 5mL / 5mL Lab ID: 1009207-08 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 16:11

Batch: 0092809 Sequence: 0I28002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.11	92	85 - 115	
1,2-Dichloroethane-d4	50.00	41.43	83	70 - 120	
Toluene-d8	50.00	41.30	83	85 - 120	*
Bromofluorobenzene	50.00	39.91	80	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-124

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0159.d Sampled: 07/21/10 11:52

Initial/Final: 5mL / 5mL Lab ID: 1007124-01 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 18:54

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	2.1	0.53	2.0	5.0	J
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.1	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	15	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.66	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-124

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0159.d Sampled: 07/21/10 11:52

Initial/Final: 5mL / 5mL Lab ID: 1007124-01 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 18:54

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	51.43	103	85 - 115	
1,2-Dichloroethane-d4	50.00	54.70	109	70 - 120	
Toluene-d8	50.00	52.83	106	85 - 120	
Bromofluorobenzene	50.00	53.15	106	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-124 MC
~~SA-PZ-125~~ 10/19/10
Mislabled

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1591.d Sampled: 09/22/10 08:20

Initial/Final: 5mL / 5mL Lab ID: 1009221-15 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 09:39

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	5.2	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	22	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.73	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-124 MC
~~SA-PZ-125~~
Mislabled 10/19/10

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1591.d Sampled: 09/22/10 08:20

Initial/Final: 5mL / 5mL Lab ID: 1009221-15 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 09:39

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	49.14	98	85 - 115	
1,2-Dichloroethane-d4	50.00	45.28	91	70 - 120	
Toluene-d8	50.00	42.83	86	85 - 120	
Bromofluorobenzene	50.00	40.97	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-125

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0259.d Sampled: 07/21/10 11:00

Initial/Final: 5mL / 5mL Lab ID: 1007124-02 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 20:24

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.3	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.68	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-125

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0259.d Sampled: 07/21/10 11:00

Initial/Final: 5mL / 5mL Lab ID: 1007124-02 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 20:24

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.46	101	85 - 115	
1,2-Dichloroethane-d4	50.00	52.20	104	70 - 120	
Toluene-d8	50.00	53.04	106	85 - 120	
Bromofluorobenzene	50.00	54.41	109	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-125 MC
~~SA-PZ-124~~
mislabled 10/19/10

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1491.d Sampled: 09/22/10 09:23

Initial/Final: 5mL / 5mL Lab ID: 1009221-14 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 09:08

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms9I

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.76	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-125 MC
~~SA-PZ-124~~
Mislabled 10/19/10

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1491.d Sampled: 09/22/10 09:23

Initial/Final: 5mL / 5mL Lab ID: 1009221-14 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 09:08

Batch: 0092823 Sequence: 0128021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		[illegible]	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	48.64	97	85 - 115	
1,2-Dichloroethane-d4	50.00	45.09	90	70 - 120	
Toluene-d8	50.00	42.89	86	85 - 120	
Bromofluorobenzene	50.00	41.51	83	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-146 Mislabled 1417 MC 10/27/10

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0359.d Sampled: 07/21/10 12:20

Initial/Final: 5mL / 5mL Lab ID: 1007124-03 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 20:51

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.2	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.63	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-~~146~~ 147 mislabled ME 10/27/10

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0359.d Sampled: 07/21/10 12:20

Initial/Final: 5mL / 5mL Lab ID: 1007124-03 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 20:51

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.96	102	85 - 115	
1,2-Dichloroethane-d4	50.00	52.02	104	70 - 120	
Toluene-d8	50.00	53.99	108	85 - 120	
Bromofluorobenzene	50.00	54.07	108	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-147

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009221-1691.d | Sampled: 09/22/10 09:42

Initial/Final: 5mL / 5mL | Lab ID: 1009221-16 | Received: 09/23/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0092941-BLK1 | Prepared: 09/29/10 19:45

% Moisture: NA | Analyzed: 09/29/10 21:06

Batch: 0092941 | Sequence: 0I29008 | Calibration: 0093003 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	3.4	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	4.4	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-147

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1691.d Sampled: 09/22/10 09:42

Initial/Final: 5mL / 5mL Lab ID: 1009221-16 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092941-BLK1 Prepared: 09/29/10 19:45

% Moisture: NA Analyzed: 09/29/10 21:06

Batch: 0092941 Sequence: 0I29008 Calibration: 0093003 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.98	0.48	0.50	5.0	JB
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.70	95	85 - 115	
1,2-Dichloroethane-d4	50.00	43.31	87	70 - 120	
Toluene-d8	50.00	46.32	93	85 - 120	
Bromofluorobenzene	50.00	42.81	86	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-148 (Mislabled 147) MC 10/27/10

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0459.d Sampled: 07/21/10 11:30

Initial/Final: 5mL / 5mL Lab ID: 1007124-04 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 21:19

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.0	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.67	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

148 MC
SA-PZ-~~147~~ 10/27/10
mislabled

Client: TETRA TECH SDG 1007124 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007124-0459.d Sampled: 07/21/10 11:30

Initial/Final: 5mL / 5mL Lab ID: 1007124-04 Received: 07/22/10 09:05

Dilution: 1 pH: 1 Assoc Blank: 0072310-BLK1 Prepared: 07/23/10 13:41

% Moisture: NA Analyzed: 07/23/10 21:19

Batch: 0072310 Sequence: 0G23008 Calibration: 0072902 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.48	101	85 - 115	
1,2-Dichloroethane-d4	50.00	53.33	107	70 - 120	
Toluene-d8	50.00	52.45	105	85 - 120	
Bromofluorobenzene	50.00	49.60	99	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-PZ-148

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1791.d Sampled: 09/22/10 08:49

Initial/Final: 5mL / 5mL Lab ID: 1009221-17 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092941-BLK1 Prepared: 09/29/10 19:45

% Moisture: NA Analyzed: 09/29/10 21:33

Batch: 0092941 Sequence: 0129008 Calibration: 0093003 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	2.4	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.46	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET
SW 8260B

SA-PZ-148

Client: TETRA TECH | SDG 1009221 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009221-1791.d | Sampled: 09/22/10 08:49

Initial/Final: 5mL / 5mL | Lab ID: 1009221-17 | Received: 09/23/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0092941-BLK1 | Prepared: 09/29/10 19:45

% Moisture: NA | Analyzed: 09/29/10 21:33

Batch: 0092941 | Sequence: 0I29008 | Calibration: 0093003 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.63	95	85 - 115	
1,2-Dichloroethane-d4	50.00	42.80	86	70 - 120	
Toluene-d8	50.00	45.47	91	85 - 120	
Bromofluorobenzene	50.00	42.39	85	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP07-20100922
SA-PZ-148-20100922

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1891.d Sampled: 09/22/10 10:00

Initial/Final: 5mL / 5mL Lab ID: 1009221-18 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092941-BLK1 Prepared: 09/29/10 19:45

% Moisture: NA Analyzed: 09/29/10 22:00

Batch: 0092941 Sequence: 0I29008 Calibration: 0093003 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	2.7	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.47	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-DUP07-20100922
SA-PZ-148-20100922

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1891.d Sampled: 09/22/10 10:00

Initial/Final: 5mL / 5mL Lab ID: 1009221-18 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092941-BLK1 Prepared: 09/29/10 19:45

% Moisture: NA Analyzed: 09/29/10 22:00

Batch: 0092941 Sequence: 0I29008 Calibration: 0093003 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	48.57	97	85 - 115	
1,2-Dichloroethane-d4	50.00	44.34	89	70 - 120	
Toluene-d8	50.00	45.58	91	85 - 120	
Bromofluorobenzene	50.00	42.63	85	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-FB01-20100921

Client: TETRA TECH | SDG 1009207 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009207-1891.d | Sampled: 09/21/10 10:15

Initial/Final: 5mL / 5mL | Lab ID: 1009207-18 | Received: 09/22/10 09:00

Dilution: 1 | pH: 1 | Assoc Blank: 0092823-BLK1 | Prepared: 09/28/10 23:12

% Moisture: NA | Analyzed: 09/29/10 01:55

Batch: 0092823 | Sequence: 0128021 | Calibration: 0092910 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-FB01-20100921

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-1891.d Sampled: 09/21/10 10:15

Initial/Final: 5mL / 5mL Lab ID: 1009207-18 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 01:55

Batch: 0092823 Sequence: 0128021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.99	94	85 - 115	
1,2-Dichloroethane-d4	50.00	43.88	88	70 - 120	
Toluene-d8	50.00	41.23	82	85 - 120	*
Bromofluorobenzene	50.00	38.55	77	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

RB01-20100915

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-13R91.d Sampled: 09/15/10 16:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-13 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 18:12

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

RB01-20100915

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-13R91.d Sampled: 09/15/10 16:55

Initial/Final: 5mL / 5mL Lab ID: 1009183-13 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092758-BLK1 Prepared: 09/27/10 15:50

% Moisture: NA Analyzed: 09/27/10 18:12

Batch: 0092758 Sequence: 0127001 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.19	88	85 - 115	
1,2-Dichloroethane-d4	50.00	40.43	81	70 - 120	
Toluene-d8	50.00	41.73	83	85 - 120	*
Bromofluorobenzene	50.00	41.49	83	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TB-03-20100618

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0269.d Sampled: 06/18/10 12:00

Initial/Final: 5mL / 5mL Lab ID: 1007009-02 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 20:31

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.76	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.0	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone	1.6	1.1	1.3	13	J
108-88-3	Toluene	0.49	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone	2.5	1.2	1.3	13	JB
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TB-03-20100618

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0269.d Sampled: 06/18/10 12:00

Initial/Final: 5mL / 5mL Lab ID: 1007009-02 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 20:31

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.42	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	0.39	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.4	0.48	0.50	5.0	JB
91-20-3	Naphthalene	4.8	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.96	90	85 - 115	
1,2-Dichloroethane-d4	50.00	50.97	102	70 - 120	
Toluene-d8	50.00	49.59	99	85 - 120	
Bromofluorobenzene	50.00	44.59	89	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

TB01-20100914

Client: TETRA TECH | SDG 1009182 | Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009182-0269.d | Sampled: 09/14/10 08:00

Initial/Final: 5mL / 5mL | Lab ID: 1009182-02 | Received: 09/16/10 09:14

Dilution: 1 | pH: 1 | Assoc Blank: 0092522-BLK1 | Prepared: 09/25/10 17:31

% Moisture: NA | Analyzed: 09/25/10 20:23

Batch: 0092522 | Sequence: 0125001 | Calibration: 0092902 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.56	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

TB01-20100914

Client: TETRA TECH SDG 1009182 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009182-0269.d Sampled: 09/14/10 08:00

Initial/Final: 5mL / 5mL Lab ID: 1009182-02 Received: 09/16/10 09:14

Dilution: 1 pH: 1 Assoc Blank: 0092522-BLK1 Prepared: 09/25/10 17:31

% Moisture: NA Analyzed: 09/25/10 20:23

Batch: 0092522 Sequence: 0125001 Calibration: 0092902 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.08	94	85 - 115	
1,2-Dichloroethane-d4	50.00	47.58	95	70 - 120	
Toluene-d8	50.00	46.30	93	85 - 120	
Bromofluorobenzene	50.00	47.04	94	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

TB02-20100915

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0859.d Sampled: 09/15/10 14:30

Initial/Final: 5mL / 5mL Lab ID: 1009183-08 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 14:39

Batch: 0092601 Sequence: 0126001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

TB02-20100915

Client: TETRA TECH SDG 1009183 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009183-0859.d Sampled: 09/15/10 14:30

Initial/Final: 5mL / 5mL Lab ID: 1009183-08 Received: 09/18/10 11:20

Dilution: 1 pH: 1 Assoc Blank: 0092601-BLK1 Prepared: 09/26/10 12:36

% Moisture: NA Analyzed: 09/26/10 14:39

Batch: 0092601 Sequence: 0126001 Calibration: 0092903 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.15	108	85 - 115	
1,2-Dichloroethane-d4	50.00	57.22	114	70 - 120	
Toluene-d8	50.00	53.84	108	85 - 120	
Bromofluorobenzene	50.00	58.97	118	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

TB03-20100920

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0991.d Sampled: 09/20/10 08:00

Initial/Final: 5mL / 5mL Lab ID: 1009207-09 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 16:38

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	4.8	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

TB03-20100920

Client: TETRA TECH SDG 1009207 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009207-0991.d Sampled: 09/20/10 08:00

Initial/Final: 5mL / 5mL Lab ID: 1009207-09 Received: 09/22/10 09:00

Dilution: 1 pH: 1 Assoc Blank: 0092809-BLK1 Prepared: 09/28/10 11:47

% Moisture: NA Analyzed: 09/28/10 16:38

Batch: 0092809 Sequence: 0128002 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.72	91	85 - 115	
1,2-Dichloroethane-d4	50.00	42.10	84	70 - 120	
Toluene-d8	50.00	42.15	84	85 - 120	*
Bromofluorobenzene	50.00	40.63	81	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

TB04-20100922

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1391.d Sampled: 09/22/10 07:10

Initial/Final: 5mL / 5mL Lab ID: 1009221-13 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 08:41

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.80	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

TB04-20100922

Client: TETRA TECH SDG 1009221 Project: CTO-160/112G01655/N62472-03-D-0057/09-160

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009221-1391.d Sampled: 09/22/10 07:10

Initial/Final: 5mL / 5mL Lab ID: 1009221-13 Received: 09/23/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0092823-BLK1 Prepared: 09/28/10 23:12

% Moisture: NA Analyzed: 09/29/10 08:41

Batch: 0092823 Sequence: 0I28021 Calibration: 0092910 Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.51	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	49.87	100	85 - 115	
1,2-Dichloroethane-d4	50.00	45.25	90	70 - 120	
Toluene-d8	50.00	43.63	87	85 - 120	
Bromofluorobenzene	50.00	41.65	83	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-318-4650

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-19R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	0.95	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.32	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-318-4650

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-19R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-318-4650

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-19R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-319-3842

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1259

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.89	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	22	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-319-3842

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1259

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-319-3842

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1259

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-319-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1359

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	2.6	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	59	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	7.6	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-319-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1359

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-319-4549

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1359

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-320-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-320-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-320-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-320-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0159

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	260	E
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	86	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	9.3	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	810	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	500	E
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	2.2	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.70	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-320-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0159

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	14	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.68	J
95-50-1	1,2-Dichlorobenzene	2.9	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.69	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-320-3034

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0159

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.06	7.3	J
2.	135-98-8	BENZENE, (1-METHYLPROPYL)-	14.62	8.4	NJ
3.	767-58-8	INDAN, 1-METHYL-	15.47	9.7	NJ
4.	119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHY	16.41	5.6	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
0-3034DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-01D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 7.1

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	71	U
95-47-6	o-Xylene (part of total)	36	U
156-60-5	trans-1,2-DCE (part of total	36	U
75-71-8	Dichlorodifluoromethane	36	U
156-59-2	cis-1,2-DCE (part of total)	36	U
74-87-3	Chloromethane	36	U
75-01-4	Vinyl Chloride	36	U
74-83-9	Bromomethane	36	U
75-00-3	Chloroethane	270	D
75-69-4	Trichlorofluoromethane	36	U
75-35-4	1,1-Dichloroethene	81	D
75-15-0	Carbon disulfide	36	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	36	U
67-64-1	Acetone	89	U
75-09-2	Methylene Chloride	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
1634-04-4	Methyl-tert-butyl ether	36	U
75-34-3	1,1-Dichloroethane	1200	D
156-59-2	cis-1,2-Dichloroethene	36	U
78-93-3	2-butanone	89	U
67-66-3	Chloroform	36	U
71-55-6	1,1,1-Trichloroethane	440	D
56-23-5	Carbon Tetrachloride	36	U
563-58-6	1,1-dichloropropene	36	U
71-43-2	Benzene	4.7	DJ
107-06-2	1,2-Dichloroethane	36	U
79-01-6	Trichloroethene	36	U
78-87-5	1,2-Dichloropropane	36	U
75-27-4	Bromodichloromethane	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U
108-10-1	4-Methyl-2-pentanone	89	U
108-88-3	Toluene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
0-3034DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-01D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 7.1

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	36	U
127-18-4	Tetrachloroethene	36	U
591-78-6	2-hexanone	89	U
124-48-1	Dibromochloromethane	36	U
106-93-4	1,2-Dibromoethane	36	U
108-90-7	Chlorobenzene	36	U
100-41-4	Ethylbenzene	36	U
100-42-5	Styrene	36	U
75-25-2	Bromoform	36	U
98-82-8	Isopropyl Benzene	12	DJ
79-34-5	1,1,2,2-Tetrachloroethane	36	U
541-73-1	1,3-Dichlorobenzene	36	U
106-46-7	1,4-Dichlorobenzene	36	U
95-50-1	1,2-Dichlorobenzene	3.7	DJ
96-12-8	1,2-Dibromo-3-Chloropropane	36	U
120-82-1	1,2,4-Trichlorobenzene	36	U
91-20-3	Naphthalene	36	U
540-59-0	1,2-Dichloroethene (total)	36	U
1330-20-7	Xylene (total)	36	U
79-20-9	Methyl acetate	36	U
110-82-7	Cyclohexane	36	U
108-87-2	Methylcyclohexane	36	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-32
0-3034DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-01D59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 7.1

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-320-5155

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	1.1	J
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	3.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-320-5155

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-320-5155

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TW-DUP02
-01042010
SA-TW-320-5155

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1559

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	0.94	J
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	3.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	0.27	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TW-DUP02
-01042010
SA-TW-320-5155

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1559

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TW-DUP02
-01042010
SA-TW-320-5155

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1559

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-321-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-16R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	0.95	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.51	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-321-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-16R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-321-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-16R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-321-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-17R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	6.9	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.45	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-321-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-17R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-321-3034

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-17R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-321-4953

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-18R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.4	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.48	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-321-4953

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-18R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-321-4953

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-18R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1459

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1459

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-322-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1459

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-2630

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1559

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.6	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.58	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	24	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-2630

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1559

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-322-2630

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1559

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-3842

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1659

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	140	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	90	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.61	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	780	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	260	E
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	2.2	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.64	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-3842

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1659

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.5	J
95-50-1	1,2-Dichlorobenzene	1.9	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.7	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-322-3842

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1659

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
2-3842DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-16D59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 7.1

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	71	U
95-47-6	o-Xylene (part of total)	36	U
156-60-5	trans-1,2-DCE (part of total	36	U
75-71-8	Dichlorodifluoromethane	36	U
156-59-2	cis-1,2-DCE (part of total)	36	U
74-87-3	Chloromethane	36	U
75-01-4	Vinyl Chloride	36	U
74-83-9	Bromomethane	36	U
75-00-3	Chloroethane	140	D
75-69-4	Trichlorofluoromethane	36	U
75-35-4	1,1-Dichloroethene	30	DJ
75-15-0	Carbon disulfide	36	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	36	U
67-64-1	Acetone	89	U
75-09-2	Methylene Chloride	36	U
156-60-5	trans-1,2-Dichloroethene	36	U
1634-04-4	Methyl-tert-butyl ether	36	U
75-34-3	1,1-Dichloroethane	1000	D
156-59-2	cis-1,2-Dichloroethene	36	U
78-93-3	2-butanone	89	U
67-66-3	Chloroform	36	U
71-55-6	1,1,1-Trichloroethane	320	D
56-23-5	Carbon Tetrachloride	36	U
563-58-6	1,1-dichloropropene	36	U
71-43-2	Benzene	36	U
107-06-2	1,2-Dichloroethane	36	U
79-01-6	Trichloroethene	36	U
78-87-5	1,2-Dichloropropane	36	U
75-27-4	Bromodichloromethane	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U
108-10-1	4-Methyl-2-pentanone	89	U
108-88-3	Toluene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
2-3842DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-16D59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 7.1

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	36	U
127-18-4	Tetrachloroethene	36	U
591-78-6	2-hexanone	89	U
124-48-1	Dibromochloromethane	36	U
106-93-4	1,2-Dibromoethane	36	U
108-90-7	Chlorobenzene	36	U
100-41-4	Ethylbenzene	36	U
100-42-5	Styrene	36	U
75-25-2	Bromoform	36	U
98-82-8	Isopropyl Benzene	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
541-73-1	1,3-Dichlorobenzene	36	U
106-46-7	1,4-Dichlorobenzene	36	U
95-50-1	1,2-Dichlorobenzene	36	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U
120-82-1	1,2,4-Trichlorobenzene	36	U
91-20-3	Naphthalene	36	U
540-59-0	1,2-Dichloroethene (total)	36	U
1330-20-7	Xylene (total)	36	U
79-20-9	Methyl acetate	36	U
110-82-7	Cyclohexane	36	U
108-87-2	Methylcyclohexane	36	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-32
2-3842DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-16D59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 7.1

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-17R59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	4.2	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	3.9	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	71	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	14	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-322-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-17R59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.42	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-322-4549

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-17R59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-DUP03
SA-TW-322-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-18R59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.9	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	70	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	13	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-DUP03
SA-TW-322-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-18R59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-DUP03
SA.TW-322-4549

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-18R59

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-323-1418

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-05R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	0.44	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-323-1418

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-05R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-323-1418

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-05R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-323-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0659

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-323-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0659

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-323-3034

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0659

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-323-5256

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0759

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-323-5256

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0759

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-323-5256

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0759

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-324-1216

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-02R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.42	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-324-1216

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-02R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-324-1216

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-02R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-324-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/13/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-324-3034

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/13/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-324-3034

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0359

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/13/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-324-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/13/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	0.26	J
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	0.55	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-324-4549

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/13/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-324-4549

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0459

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/13/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-325-1822

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0259

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.84	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.65	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-325-1822

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0259

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-325-1822

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0259

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-325-3236

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0359

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	6.3	J
75-09-2	Methylene Chloride	0.69	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.65	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-325-3236

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0359

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.49	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-325-3236

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0359

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-325-5054

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0459

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.94	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.2	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-325-5054

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0459

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-325-5054

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0459

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-326-1822

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1059

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.70	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.56	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-326-1822

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1059

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-326-1822

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1059

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-326-3236

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1159

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.4	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	4.1	JB
75-09-2	Methylene Chloride	0.60	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	32	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.51	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-326-3236

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1159

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	2.9	J
95-50-1	1,2-Dichlorobenzene	1.1	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.1	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-326-3236

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1159

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-326-4246

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	22	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	15	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	6.9	JB
75-09-2	Methylene Chloride	0.55	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	300	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	44	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.30	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.46	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-326-4246

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.71	J
95-50-1	1,2-Dichlorobenzene	0.36	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.8	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-326-4246

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-1259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
6-4246DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-12RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-12D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	25	U
95-47-6	o-Xylene (part of total)	13	U
156-60-5	trans-1,2-DCE (part of total	13	U
75-71-8	Dichlorodifluoromethane	13	U
156-59-2	cis-1,2-DCE (part of total)	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	19	D
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	15	D
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	2.0	DJB
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	310	D
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	40	D
56-23-5	Carbon Tetrachloride	13	U
563-58-6	1,1-dichloropropene	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	3.2	DJB
10061-02-6	trans-1,3-Dichloropropene	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
6-4246DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-12RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-12D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	1.2	DJ
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	3.0	DJ
91-20-3	Naphthalene	3.2	DJ
540-59-0	1,2-Dichloroethene (total)	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-32
6-4246DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-12RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-12D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-327-1014

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0759

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.79	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.69	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-327-1014

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0759

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-327-1014

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0759

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-327-2630

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0659

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.69	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.71	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-327-2630

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0659

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-327-2630

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0659

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-327-4145

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0559

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	34	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	19	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.68	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	290	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	67	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.44	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.65	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-327-4145

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0559

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.2	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-327-4145

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0559

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
7-4145DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-05D59

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 07/01/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	25	U
95-47-6	o-Xylene (part of total)	13	U
156-60-5	trans-1,2-DCE (part of total	13	U
75-71-8	Dichlorodifluoromethane	13	U
156-59-2	cis-1,2-DCE (part of total)	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	25	D
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	21	D
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	3.0	DJB
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	310	D
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	69	D
56-23-5	Carbon Tetrachloride	13	U
563-58-6	1,1-dichloropropene	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	2.4	DJB
10061-02-6	trans-1,3-Dichloropropene	13	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
7-4145DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-05D59

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 07/01/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	1.8	DJ
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
91-20-3	Naphthalene	3.6	DJ
540-59-0	1,2-Dichloroethene (total)	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-32
7-4145DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-05D59

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 07/01/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-01-06222010
SA-TW-327-4145

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0959

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	36	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	17	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.69	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	300	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	68	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.41	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.72	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-01-06222010
SA-TW-327-4145

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0959

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.2	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-01-06222010
SA-TW-327-4/15

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0959

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DUP-01-0
6222010DL
SA-TW-327-4145

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-09D59

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 07/01/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	25	U
95-47-6	o-Xylene (part of total)	13	U
156-60-5	trans-1,2-DCE (part of total	13	U
75-71-8	Dichlorodifluoromethane	13	U
156-59-2	cis-1,2-DCE (part of total)	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	30	D
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	21	D
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	3.2	DJB
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	330	D
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	72	D
56-23-5	Carbon Tetrachloride	13	U
563-58-6	1,1-dichloropropene	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	2.3	DJB
10061-02-6	trans-1,3-Dichloropropene	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-01-0
6222010DL
SA-TW-327-4145

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-09D59

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 07/01/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	1.4	DJ
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
91-20-3	Naphthalene	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-01-0
6222010DL
3A-TW-327-4145

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-09D59

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 07/01/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-328-0812

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0359

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.63	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.60	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-328-0812

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0359

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-328-0812

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0359

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-328-2327

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0459

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	29	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	19	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.57	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	320	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	19	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.88	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.44	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-328-2327

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0459

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	0.54	J
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	1.7	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.89	J
106-46-7	1,4-Dichlorobenzene	3.8	J
95-50-1	1,2-Dichlorobenzene	1.4	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.81	J
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-328-2327

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0459

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
8-2327DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-04D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	25	U
95-47-6	o-Xylene (part of total)	13	U
156-60-5	trans-1,2-DCE (part of total	13	U
75-71-8	Dichlorodifluoromethane	13	U
156-59-2	cis-1,2-DCE (part of total)	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	28	D
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	18	D
75-15-0	Carbon disulfide	13	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	13	U
67-64-1	Acetone	31	U
75-09-2	Methylene Chloride	8.3	DJB
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	360	D
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-butanone	31	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	20	D
56-23-5	Carbon Tetrachloride	13	U
563-58-6	1,1-dichloropropene	13	U
71-43-2	Benzene	0.93	DJ
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	31	U
108-88-3	Toluene	1.7	DJB
10061-02-6	trans-1,3-Dichloropropene	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-32
8-2327DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-04D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-hexanone	31	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropyl Benzene	1.6	DJ
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	0.91	DJ
106-46-7	1,4-Dichlorobenzene	3.9	DJ
95-50-1	1,2-Dichlorobenzene	1.4	DJ
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
91-20-3	Naphthalene	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
1330-20-7	Xylene (total)	13	U
79-20-9	Methyl acetate	13	U
110-82-7	Cyclohexane	13	U
108-87-2	Methylcyclohexane	13	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-32
8-2327DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-04D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-328-3640

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-05R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	12	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	4.3	JB
75-09-2	Methylene Chloride	3.4	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	170	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	28	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.88	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-328-3640

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-05R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.97	J
95-50-1	1,2-Dichlorobenzene	0.40	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.2	J
91-20-3	Naphthalene	1.4	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-328-3640

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-05R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-329-1014

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0859

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.76	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.2	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.62	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-329-1014

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0859

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-329-1014

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0859

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-329-2630

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0959

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	4.9	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	2.2	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.62	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	44	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	1.9	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.63	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-329-2630

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0959

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	0.29	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-329-2630

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0959

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-329-4044

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0159

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	39	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	69	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.4	J
75-09-2	Methylene Chloride	0.84	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	600	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	170	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	1.9	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.40	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.1	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-329-4044

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0159

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	1.3	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.0	J
95-50-1	1,2-Dichlorobenzene	0.94	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	J
91-20-3	Naphthalene	7.9	B
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-329-4044

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0159

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
9-4044DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-01D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 6.7

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	67	U
95-47-6	o-Xylene (part of total)	33	U
156-60-5	trans-1,2-DCE (part of total	33	U
75-71-8	Dichlorodifluoromethane	33	U
156-59-2	cis-1,2-DCE (part of total)	33	U
74-87-3	Chloromethane	33	U
75-01-4	Vinyl Chloride	33	U
74-83-9	Bromomethane	33	U
75-00-3	Chloroethane	44	D
75-69-4	Trichlorofluoromethane	33	U
75-35-4	1,1-Dichloroethene	71	D
75-15-0	Carbon disulfide	33	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	33	U
67-64-1	Acetone	83	U
75-09-2	Methylene Chloride	21	DJB
156-60-5	trans-1,2-Dichloroethene	33	U
1634-04-4	Methyl-tert-butyl ether	33	U
75-34-3	1,1-Dichloroethane	900	D
156-59-2	cis-1,2-Dichloroethene	33	U
78-93-3	2-butanone	83	U
67-66-3	Chloroform	33	U
71-55-6	1,1,1-Trichloroethane	190	D
56-23-5	Carbon Tetrachloride	33	U
563-58-6	1,1-dichloropropene	33	U
71-43-2	Benzene	2.1	DJ
107-06-2	1,2-Dichloroethane	33	U
79-01-6	Trichloroethene	33	U
78-87-5	1,2-Dichloropropane	33	U
75-27-4	Bromodichloromethane	33	U
10061-01-5	cis-1,3-Dichloropropene	33	U
108-10-1	4-Methyl-2-pentanone	83	U
108-88-3	Toluene	5.8	DJB
10061-02-6	trans-1,3-Dichloropropene	33	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-32
9-4044DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-01D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 6.7

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	33	U
127-18-4	Tetrachloroethene	33	U
591-78-6	2-hexanone	83	U
124-48-1	Dibromochloromethane	33	U
106-93-4	1,2-Dibromoethane	33	U
108-90-7	Chlorobenzene	33	U
100-41-4	Ethylbenzene	33	U
100-42-5	Styrene	33	U
75-25-2	Bromoform	33	U
98-82-8	Isopropyl Benzene	33	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U
541-73-1	1,3-Dichlorobenzene	33	U
106-46-7	1,4-Dichlorobenzene	33	U
95-50-1	1,2-Dichlorobenzene	33	U
96-12-8	1,2-Dibromo-3-Chloropropane	33	U
120-82-1	1,2,4-Trichlorobenzene	33	U
91-20-3	Naphthalene	33	U
540-59-0	1,2-Dichloroethene (total)	33	U
1330-20-7	Xylene (total)	33	U
79-20-9	Methyl acetate	33	U
110-82-7	Cyclohexane	33	U
108-87-2	Methylcyclohexane	33	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-32
9-4044DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-01D259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 6.7

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-330-1822
SB 9-30-10

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0859

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-330-1822
JB 9-30-10

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0859

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

330
SA-TW-~~325~~-1822
JB 9-30-10

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-0859

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-~~325~~330-3034
JB 9-30-10

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-09R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

330
SA-TW-~~325~~-3034
9-30-10 JB

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-09R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

330
SA-TW-325-3034
JB 9.30.10

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-09R59

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-330-5054
JB 9-30-10

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1059

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	1.4	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-330-5054
SB9-30-10

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1059

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-330-5054
JB 9-30-10

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1059

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-331-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-10R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	0.32	J
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.8	J
75-09-2	Methylene Chloride	0.84	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.6	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-331-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-10R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	1.6	JB
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.59	JB
91-20-3	Naphthalene	1.5	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-331-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-10R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	13.30	5.9	J
2.		UNKNOWN	16.69	5.1	J
3.	2809-64-5	NAPHTHALENE, 1,2,3,4-TETRAHY	18.24	3.4	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-331-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-11R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.8	J
75-09-2	Methylene Chloride	0.91	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.9	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-331-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-11R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	190	
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-331-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-11R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-01-20100602
SA-TW-331-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-20R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.6	J
75-09-2	Methylene Chloride	0.73	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.9	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-01-20100602
SA-TW-331-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-20R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	190	
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-01-20100602
SA-TW-331-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-20R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-331-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0159

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.60	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-331-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0159

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.6	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-331-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0159

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-332-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-06R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.72	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-332-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-06R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-332-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-06R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-332-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0759

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.42	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-332-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0759

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-332-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0759

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-332-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0859

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.0	J
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	32	
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.65	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-332-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0859

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	1.5	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-332-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0859

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	565-75-3	PENTANE, 2,3,4-TRIMETHYL-	11.85	26	NJ
2.		UNKNOWN	11.95	41	J
3.					
4.					
5.					
6.					
7.					
8.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-333-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.46	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-333-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-333-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-333-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0459

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	1.6	J
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	3.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	0.39	J
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.91	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-333-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0459

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	1.7	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	0.88	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-333-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0459

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.95	5.8	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-333-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-05D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	50	U
95-47-6	o-Xylene (part of total)	25	U
156-60-5	trans-1,2-DCE (part of total	25	U
75-71-8	Dichlorodifluoromethane	25	U
156-59-2	cis-1,2-DCE (part of total)	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl Chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	240	
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	43	
75-15-0	Carbon disulfide	25	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	25	U
67-64-1	Acetone	13	J
75-09-2	Methylene Chloride	4.3	JB
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl-tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	740	
156-59-2	cis-1,2-Dichloroethene	25	U
78-93-3	2-butanone	63	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	250	
56-23-5	Carbon Tetrachloride	25	U
563-58-6	1,1-dichloropropene	25	U
71-43-2	Benzene	2.2	J
107-06-2	1,2-Dichloroethane	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	11	JB
10061-02-6	trans-1,3-Dichloropropene	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-333-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-05D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	U
591-78-6	2-hexanone	6.7	JB
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropyl Benzene	8.3	J
79-34-5	1,1,2,2-Tetrachloroethane	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	3.4	J
96-12-8	1,2-Dibromo-3-Chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
91-20-3	Naphthalene	7.4	JB
540-59-0	1,2-Dichloroethene (total)	25	U
1330-20-7	Xylene (total)	25	U
79-20-9	Methyl acetate	25	U
110-82-7	Cyclohexane	25	U
108-87-2	Methylcyclohexane	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-333-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-05D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-334-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-18R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.1	J
75-09-2	Methylene Chloride	0.66	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.9	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-334-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-18R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	.5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-334-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-18R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-334-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-19R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	1.9	J
75-09-2	Methylene Chloride	0.67	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.1	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-334-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-19R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-334-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-19R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
DUP-02-20100603
SA-TW-334-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.6	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-02-20100603
SA-TW-334-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-02-20100603
SA-TW-334-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-334-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0259

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	0.84	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.9	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-334-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0259

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-334-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0259

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-335-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-12R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.2	J
75-09-2	Methylene Chloride	0.90	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.8	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-335-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-12R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-335-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-12R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-335-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-13D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	20	U
95-47-6	o-Xylene (part of total)	10	U
156-60-5	trans-1,2-DCE (part of total)	10	U
75-71-8	Dichlorodifluoromethane	10	U
156-59-2	cis-1,2-DCE (part of total)	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	1.3	J
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	76	
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	16	
75-15-0	Carbon disulfide	10	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	10	U
67-64-1	Acetone	5.1	J
75-09-2	Methylene Chloride	1.8	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	280	
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-butanone	25	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	70	
56-23-5	Carbon Tetrachloride	10	U
563-58-6	1,1-dichloropropene	10	U
71-43-2	Benzene	1.3	J
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	4.3	JB
10061-02-6	trans-1,3-Dichloropropene	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-335-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-13D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-hexanone	25	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropyl Benzene	5.2	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	1.8	J
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
1330-20-7	Xylene (total)	10	U
79-20-9	Methyl acetate	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-335-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-13D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	135-98-8	BENZENE, (1-METHYLPROPYL)-	14.96	13	NJ
2.	824-90-8	1-PHENYL-1-BUTENE	15.77	12	NJ
3.	1680-51-9	NAPHTHALENE, 1,2,3,4-TETRAHY	18.23	15	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-335-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-14D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 14.3

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	140	U
95-47-6	o-Xylene (part of total)	71	U
156-60-5	trans-1,2-DCE (part of total	71	U
75-71-8	Dichlorodifluoromethane	71	U
156-59-2	cis-1,2-DCE (part of total)	71	U
74-87-3	Chloromethane	71	U
75-01-4	Vinyl Chloride	8.1	J
74-83-9	Bromomethane	71	U
75-00-3	Chloroethane	470	
75-69-4	Trichlorofluoromethane	71	U
75-35-4	1,1-Dichloroethene	110	
75-15-0	Carbon disulfide	71	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	71	U
67-64-1	Acetone	24	J
75-09-2	Methylene Chloride	13	JB
156-60-5	trans-1,2-Dichloroethene	71	U
1634-04-4	Methyl-tert-butyl ether	71	U
75-34-3	1,1-Dichloroethane	2100	
156-59-2	cis-1,2-Dichloroethene	71	U
78-93-3	2-butanone	180	U
67-66-3	Chloroform	71	U
71-55-6	1,1,1-Trichloroethane	570	
56-23-5	Carbon Tetrachloride	71	U
563-58-6	1,1-dichloropropene	71	U
71-43-2	Benzene	7.2	J
107-06-2	1,2-Dichloroethane	71	U
79-01-6	Trichloroethene	71	U
78-87-5	1,2-Dichloropropane	71	U
75-27-4	Bromodichloromethane	71	U
10061-01-5	cis-1,3-Dichloropropene	71	U
108-10-1	4-Methyl-2-pentanone	180	U
108-88-3	Toluene	31	JB
10061-02-6	trans-1,3-Dichloropropene	71	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-335-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-14D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 14.3

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	71	U
127-18-4	Tetrachloroethene	71	U
591-78-6	2-hexanone	180	U
124-48-1	Dibromochloromethane	71	U
106-93-4	1,2-Dibromoethane	71	U
108-90-7	Chlorobenzene	71	U
100-41-4	Ethylbenzene	71	U
100-42-5	Styrene	71	U
75-25-2	Bromoform	71	U
98-82-8	Isopropyl Benzene	23	J
79-34-5	1,1,2,2-Tetrachloroethane	71	U
541-73-1	1,3-Dichlorobenzene	71	U
106-46-7	1,4-Dichlorobenzene	71	U
95-50-1	1,2-Dichlorobenzene	71	U
96-12-8	1,2-Dibromo-3-Chloropropane	71	U
120-82-1	1,2,4-Trichlorobenzene	71	U
91-20-3	Naphthalene	25	JB
540-59-0	1,2-Dichloroethene (total)	71	U
1330-20-7	Xylene (total)	71	U
79-20-9	Methyl acetate	71	U
110-82-7	Cyclohexane	71	U
108-87-2	Methylcyclohexane	71	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-335-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-14D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 14.3

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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FORM I VOA-TIC

ANALYSIS DATA SHEET

SW 8260B

SA-TW-335-4145

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-0459.d Sampled: 06/30/10 14:45

Initial/Final: 5mL / 5mL Lab ID: 1007011-04 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070902-BLK1 Prepared: 07/10/10 05:41

% Moisture: NA Analyzed: 07/10/10 09:48

Batch: 0070902 Sequence: 0G09003 Calibration: 0072002 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.52	0.39	0.50	5.0	J
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.60	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.37	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

Environmental Testing Laboratories

CompuChem

A Division Of

Liberty Analytical Corp.

ANALYSIS DATA SHEET

SW 8260B

SA-TW-335-4145

Client: TETRA TECH | SDG 1007011 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007011-0459.d | Sampled: 06/30/10 14:45

Initial/Final: 5mL / 5mL | Lab ID: 1007011-04 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070902-BLK1 | Prepared: 07/10/10 05:41

% Moisture: NA | Analyzed: 07/10/10 09:48

Batch: 0070902 | Sequence: 0G09003 | Calibration: 0072002 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	57.45	115	85 - 115	
1,2-Dichloroethane-d4	50.00	60.41	121	70 - 120	*
Toluene-d8	50.00	54.21	108	85 - 120	
Bromofluorobenzene	50.00	53.78	108	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-335-4145RE

Client: TETRA TECH | SDG 1007011 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007011-04R59.d | Sampled: 06/30/10 14:45

Initial/Final: 5mL / 5mL | Lab ID: 1007011-04RE1 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071511-BLK1 | Prepared: 07/15/10 13:13

% Moisture: NA | Analyzed: 07/15/10 19:00

Batch: 0071511 | Sequence: 0G15009 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.83	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.3	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.58	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.40	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-335-4145RE

Client: TETRA TECH | SDG 1007011 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007011-04R59.d | Sampled: 06/30/10 14:45

Initial/Final: 5mL / 5mL | Lab ID: 1007011-04RE1 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071511-BLK1 | Prepared: 07/15/10 13:13

% Moisture: NA | Analyzed: 07/15/10 19:00

Batch: 0071511 | Sequence: 0G15009 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.14	100	85 - 115	
1,2-Dichloroethane-d4	50.00	52.85	106	70 - 120	
Toluene-d8	50.00	55.91	112	85 - 120	
Bromofluorobenzene	50.00	56.47	113	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

DUP-20100630
SA-TW-335-4145

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-05R59.d Sampled: 06/30/10 16:00

Initial/Final: 5mL / 5mL Lab ID: 1007011-05 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0071409-BLK1 Prepared: 07/14/10 12:56

% Moisture: NA Analyzed: 07/14/10 15:22

Batch: 0071409 Sequence: 0G14010 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.0	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.3	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.59	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

DUP-20100630
SA-TW-335-4145

Client: TETRA TECH | SDG 1007011 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007011-05R59.d | Sampled: 06/30/10 16:00

Initial/Final: 5mL / 5mL | Lab ID: 1007011-05 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071409-BLK1 | Prepared: 07/14/10 12:56

% Moisture: NA | Analyzed: 07/14/10 15:22

Batch: 0071409 | Sequence: 0G14010 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.21	104	85 - 115	
1,2-Dichloroethane-d4	50.00	52.86	106	70 - 120	
Toluene-d8	50.00	56.15	112	85 - 120	
Bromofluorobenzene	50.00	56.45	113	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-336-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-1559

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total)	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.2	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.47	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-336-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-1559

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-336-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-1559

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT.	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-336-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-16R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.6	J
75-09-2	Methylene Chloride	1.0	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.0	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-336-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-16R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	0.42	J
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	0.51	J
106-46-7	1,4-Dichlorobenzene	2.2	JB
95-50-1	1,2-Dichlorobenzene	0.71	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-336-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-16R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-336-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-17D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	20	U
95-47-6	o-Xylene (part of total)	10	U
156-60-5	trans-1,2-DCE (part of total	10	U
75-71-8	Dichlorodifluoromethane	10	U
156-59-2	cis-1,2-DCE (part of total)	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	1.3	J
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	110	
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	15	
75-15-0	Carbon disulfide	10	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	10	U
67-64-1	Acetone	4.9	J
75-09-2	Methylene Chloride	1.9	JB
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	240	
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-butanone	25	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	55	
56-23-5	Carbon Tetrachloride	10	U
563-58-6	1,1-dichloropropene	10	U
71-43-2	Benzene	1.0	J
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	4.4	JB
10061-02-6	trans-1,3-Dichloropropene	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-336-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-17D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-hexanone	25	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	0.80	J
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropyl Benzene	11	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	1.5	J
106-46-7	1,4-Dichlorobenzene	6.4	JB
95-50-1	1,2-Dichlorobenzene	1.9	J
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	4.0	JB
91-20-3	Naphthalene	4.2	JB
540-59-0	1,2-Dichloroethene (total)	10	U
1330-20-7	Xylene (total)	10	U
79-20-9	Methyl acetate	10	U
110-82-7	Cyclohexane	10	U
108-87-2	Methylcyclohexane	10	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-336-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-17D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-337-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-10R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.4	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.0	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-337-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-10R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-337-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-10R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-337-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-11R269

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	4.0	JB
75-09-2	Methylene Chloride	0.60	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.83	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-337-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-11R269

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-337-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-11R269

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-337-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-12R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.2	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.5	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-337-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-12R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	18	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-337-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-12R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-338-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-07R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.6	JB
75-09-2	Methylene Chloride	0.66	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.5	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-338-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-07R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	0.33	J
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-338-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-07R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-338-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-08R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	7.4	JB
75-09-2	Methylene Chloride	0.62	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.3	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-338-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-08R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-338-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-08R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-03-20100603
SA-TW-338-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-09R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.5	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

DUP-03-20100603
SA-TW-338-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-09R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.1	J
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

DUP-03-20100603
SA-TW-338-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-09R59

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-338-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0159

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	210	E
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	37	
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	680	E
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	130	
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	2.6	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	0.34	J
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.3	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-338-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0159

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	4.5	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.9	J
95-50-1	1,2-Dichlorobenzene	1.8	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.8	J
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	0.98	J
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-338-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-0159

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNK. ALKANE	6.82	11	J
2.		UNKNOWN	14.65	5.5	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-33
8-3135DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-01D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	50	U
95-47-6	o-Xylene (part of total)	25	U
156-60-5	trans-1,2-DCE (part of total	25	U
75-71-8	Dichlorodifluoromethane	25	U
156-59-2	cis-1,2-DCE (part of total)	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl Chloride	4.1	DJ
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	240	D
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	42	D
75-15-0	Carbon disulfide	25	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	25	U
67-64-1	Acetone	12	DJB
75-09-2	Methylene Chloride	4.0	DJB
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl-tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	950	D
156-59-2	cis-1,2-Dichloroethene	25	U
78-93-3	2-butanone	63	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	150	D
56-23-5	Carbon Tetrachloride	25	U
563-58-6	1,1-dichloropropene	25	U
71-43-2	Benzene	3.2	DJ
107-06-2	1,2-Dichloroethane	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	11	DJB
10061-02-6	trans-1,3-Dichloropropene	25	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-33
8-3135DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-01D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	U
591-78-6	2-hexanone	63	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropyl Benzene	6.2	DJ
79-34-5	1,1,2,2-Tetrachloroethane	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	2.4	DJ
95-50-1	1,2-Dichlorobenzene	2.4	DJ
96-12-8	1,2-Dibromo-3-Chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
91-20-3	Naphthalene	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
1330-20-7	Xylene (total)	25	U
79-20-9	Methyl acetate	25	U
110-82-7	Cyclohexane	25	U
108-87-2	Methylcyclohexane	25	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TW-33
8-3135DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-01D69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 5.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TW-339-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-04R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	0.21	J
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	4.3	JB
75-09-2	Methylene Chloride	0.61	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.1	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-339-1115

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-04R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-339-1115

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-04R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75581-03-2	2,6,10,14,18-PENTAMETHYL-2,6	17.98	120	NJ
2.		UNKNQWN	18.20	55	J
3.		UNKNOWN	18.46	97	J
4.		UNKNOWN	18.82	160	J
5.		UNKNOWN	19.26	230	J
6.		UNKNOWN	19.66	180	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-339-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-05R269

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	4.7	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.85	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-339-2125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-05R269

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-339-2125

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-05R269

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-339-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-06R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	2.5	JB
75-09-2	Methylene Chloride	0.57	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.2	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-339-3135

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-06R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-339-3135

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-06R69

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-2125

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-01R59.d Sampled: 06/30/10 12:20

Initial/Final: 5mL / 5mL Lab ID: 1007011-01 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0071409-BLK1 Prepared: 07/14/10 12:56

% Moisture: NA Analyzed: 07/14/10 14:55

Batch: 0071409 Sequence: 0G14010 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.1	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-2125

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-01R59.d Sampled: 06/30/10 12:20

Initial/Final: 5mL / 5mL Lab ID: 1007011-01 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0071409-BLK1 Prepared: 07/14/10 12:56

% Moisture: NA Analyzed: 07/14/10 14:55

Batch: 0071409 Sequence: 0G14010 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	51.31	103	85 - 115	
1,2-Dichloroethane-d4	50.00	53.11	106	70 - 120	
Toluene-d8	50.00	56.21	112	85 - 120	
Bromofluorobenzene	50.00	56.55	113	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-3135

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-0259.d Sampled: 06/30/10 12:48

Initial/Final: 5mL / 5mL Lab ID: 1007011-02 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070902-BLK1 Prepared: 07/10/10 05:41

% Moisture: NA Analyzed: 07/10/10 08:53

Batch: 0070902 Sequence: 0G09003 Calibration: 0072002 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	250	0.55	2.0	5.0	E
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	21	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.86	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	410	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	70	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane	0.54	0.23	0.50	5.0	J
71-43-2	Benzene	3.1	0.28	0.50	5.0	J
79-01-6	Trichloroethene	0.43	0.28	0.50	5.0	J
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.64	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene	1.0	0.27	0.50	5.0	J
100-41-4	Ethylbenzene	5.6	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-3135

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-0259.d Sampled: 06/30/10 12:48

Initial/Final: 5mL / 5mL Lab ID: 1007011-02 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070902-BLK1 Prepared: 07/10/10 05:41

% Moisture: NA Analyzed: 07/10/10 08:53

Batch: 0070902 Sequence: 0G09003 Calibration: 0072002 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	19	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene	2.1	0.36	0.50	5.0	J
106-46-7	1,4-Dichlorobenzene	8.8	0.30	0.50	5.0	
95-50-1	1,2-Dichlorobenzene	2.1	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.9	0.48	0.50	5.0	J
91-20-3	Naphthalene	27	1.1	2.0	5.0	
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	58.20	116	85 - 115	*
1,2-Dichloroethane-d4	50.00	59.62	119	70 - 120	
Toluene-d8	50.00	54.08	108	85 - 120	
Bromofluorobenzene	50.00	52.37	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000135-98-8	Benzene, (1-methylpropyl)-	11	336106	15.028	91	JN
135-01-3	Benzene, 1,2-diethyl- $$ Benzene, o-diet	7.3	230321	15.333	91	JN
001587-04-8	Benzene, 1-methyl-2-(2-propenyl)-	8.7	275371	15.885	93	JN
103-65-1	Benzene, propyl- $$ n-Propylbenzene $$ I	6.8	214033	14.486	87	JN
000767-58-8	Indan, 1-methyl-	13	405793	15.954	93	JN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	12	366062	16.94	94	JN
2809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-methyl	6.3	198649	18.764	94	JN
109-66-0	Pentane $$ n-Pentane $$ Skellysolve A $$	11	282671	6.885	86	JN
NA	Unknown 15.481	9.4	296106	15.481	0	J
NA	Unknown 16.092	6.9	216165	16.092	0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-3135DL

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-02D59.d Sampled: 06/30/10 12:48

Initial/Final: 5mL / 5mL Lab ID: 1007011-02RE1 Received: 07/01/10 09:10

Dilution: 3.33 pH: 1 Assoc Blank: 0071511-BLK1 Prepared: 07/15/10 13:13

% Moisture: NA Analyzed: 07/15/10 18:05

Batch: 0071511 Sequence: 0G15009 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		1.1	1.7	17	U
74-87-3	Chloromethane		1.3	1.7	17	U
75-01-4	Vinyl chloride		1.6	1.7	17	U
74-83-9	Bromomethane		2.5	6.7	17	U
75-00-3	Chloroethane	310	1.8	6.7	17	D
75-69-4	Trichlorofluoromethane		1.6	1.7	17	U
75-35-4	1,1-Dichloroethene	23	1.8	6.7	17	D
67-64-1	Acetone		5.3	17	42	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		2.7	6.7	17	U
75-15-0	Carbon disulfide		0.53	1.7	17	U
79-20-9	Methyl acetate		2.9	6.7	17	U
75-09-2	Methylene chloride	4.8	1.6	1.7	17	JBD
156-60-5	trans-1,2-Dichloroethene		1.5	1.7	17	U
1634-04-4	Methyl tert-butyl ether		0.73	1.7	17	U
75-34-3	1,1-Dichloroethane	460	0.90	1.7	17	D
156-59-2	cis-1,2-Dichloroethene		2.2	6.7	17	U
78-93-3	2-Butanone		5.0	17	42	U
67-66-3	Chloroform		0.90	1.7	17	U
71-55-6	1,1,1-Trichloroethane	67	1.1	1.7	17	D
110-82-7	Cyclohexane		1.5	1.7	17	U
563-58-6	1,1-Dichloropropene		1.4	1.7	17	U
56-23-5	Carbon tetrachloride		1.0	1.7	17	U
107-06-2	1,2-Dichloroethane		0.77	1.7	17	U
71-43-2	Benzene	3.3	0.93	1.7	17	JD
79-01-6	Trichloroethene		0.93	1.7	17	U
108-87-2	Methylcyclohexane		1.2	1.7	17	U
78-87-5	1,2-Dichloropropane		2.9	6.7	17	U
75-27-4	Bromodichloromethane		1.2	1.7	17	U
10061-01-5	cis-1,3-Dichloropropene		1.7	6.7	17	U
108-10-1	4-Methyl-2-pentanone		3.7	4.2	42	U
108-88-3	Toluene	2.6	1.0	1.7	17	JBD
10061-02-6	trans-1,3-Dichloropropene		1.5	1.7	17	U
79-00-5	1,1,2-Trichloroethane		1.7	6.7	17	U
127-18-4	Tetrachloroethene		1.4	1.7	17	U
591-78-6	2-Hexanone		4.0	4.2	42	U
124-48-1	Dibromochloromethane		1.1	1.7	17	U
106-93-4	1,2-Dibromoethane		1.5	1.7	17	U
108-90-7	Chlorobenzene		0.90	1.7	17	U
100-41-4	Ethylbenzene	5.7	1.4	1.7	17	JD

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-3135DL

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-02D59.d Sampled: 06/30/10 12:48

Initial/Final: 5mL / 5mL Lab ID: 1007011-02RE1 Received: 07/01/10 09:10

Dilution: 3.33 pH: 1 Assoc Blank: 0071511-BLK1 Prepared: 07/15/10 13:13

% Moisture: NA Analyzed: 07/15/10 18:05

Batch: 0071511 Sequence: 0G15009 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		2.8	3.3	33	U
95-47-6	o-Xylene		0.83	1.7	17	U
100-42-5	Styrene		1.2	1.7	17	U
75-25-2	Bromoform		3.2	6.7	17	U
98-82-8	Isopropylbenzene	19	0.90	1.7	17	D
79-34-5	1,1,2,2-Tetrachloroethane		2.1	6.7	17	U
541-73-1	1,3-Dichlorobenzene		1.2	1.7	17	U
106-46-7	1,4-Dichlorobenzene	9.1	1.0	1.7	17	JD
95-50-1	1,2-Dichlorobenzene	1.4	1.2	1.7	17	JD
96-12-8	1,2-Dibromo-3-chloropropane		3.0	6.7	17	U
120-82-1	1,2,4-Trichlorobenzene		1.6	1.7	17	U
91-20-3	Naphthalene	20	3.7	6.7	17	D
540-59-0	1,2-Dichloroethene (total)		1.5	1.7	17	U
1330-20-7	Xylenes (total)		0.83	1.7	17	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.71	101	85 - 115	
1,2-Dichloroethane-d4	50.00	52.05	104	70 - 120	
Toluene-d8	50.00	56.85	114	85 - 120	
Bromofluorobenzene	50.00	54.79	110	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl	17	122615	18.732	59	JD
NA	Unknown 6.873	21	201350	6.873	0	JD

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-4145

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-0359.d Sampled: 06/30/10 13:42

Initial/Final: 5mL / 5mL Lab ID: 1007011-03 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070902-BLK1 Prepared: 07/10/10 05:41

% Moisture: NA Analyzed: 07/10/10 09:21

Batch: 0070902 Sequence: 0G09003 Calibration: 0072002 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	10	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	1.3	0.53	2.0	5.0	J
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.57	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether	1.3	0.22	0.50	5.0	J
75-34-3	1,1-Dichloroethane	3.1	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.99	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	0.46	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.50	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-4145

Client: TETRA TECH SDG 1007011 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007011-0359.d Sampled: 06/30/10 13:42

Initial/Final: 5mL / 5mL Lab ID: 1007011-03 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070902-BLK1 Prepared: 07/10/10 05:41

% Moisture: NA Analyzed: 07/10/10 09:21

Batch: 0070902 Sequence: 0G09003 Calibration: 0072002 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	2.7	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	0.66	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.6	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.74	113	85 - 115	
1,2-Dichloroethane-d4	50.00	60.54	121	70 - 120	*
Toluene-d8	50.00	53.04	106	85 - 120	
Bromofluorobenzene	50.00	53.65	107	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-4145RE

Client: TETRA TECH | SDG 1007011 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007011-03R59.d | Sampled: 06/30/10 13:42

Initial/Final: 5mL / 5mL | Lab ID: 1007011-03RE1 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071511-BLK1 | Prepared: 07/15/10 13:13

% Moisture: NA | Analyzed: 07/15/10 18:32

Batch: 0071511 | Sequence: 0G15009 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	13	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	1.6	0.53	2.0	5.0	J
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.3	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether	1.3	0.22	0.50	5.0	J
75-34-3	1,1-Dichloroethane	3.3	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.92	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	0.39	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.70	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-340-4145RE

Client: TETRA TECH | SDG 1007011 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007011-03R59.d | Sampled: 06/30/10 13:42

Initial/Final: 5mL / 5mL | Lab ID: 1007011-03RE1 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071511-BLK1 | Prepared: 07/15/10 13:13

% Moisture: NA | Analyzed: 07/15/10 18:32

Batch: 0071511 | Sequence: 0G15009 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	2.5	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	0.48	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.8	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.26	101	85 - 115	
1,2-Dichloroethane-d4	50.00	53.73	107	70 - 120	
Toluene-d8	50.00	55.59	111	85 - 120	
Bromofluorobenzene	50.00	55.98	112	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-07R69.d Sampled: 06/29/10 11:55

Initial/Final: 5mL / 5mL Lab ID: 1007010-07 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 15:00

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.55	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.0	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.59	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-07R69.d Sampled: 06/29/10 11:55

Initial/Final: 5mL / 5mL Lab ID: 1007010-07 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 15:00

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.74	91	85 - 115	
1,2-Dichloroethane-d4	50.00	51.05	102	70 - 120	
Toluene-d8	50.00	48.33	97	85 - 120	
Bromofluorobenzene	50.00	43.96	88	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000541-05-9	Cyclotrisiloxane, hexamethyl-	5.8	251454	12.821	86	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-2125

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-09R69.d Sampled: 06/29/10 12:28

Initial/Final: 5mL / 5mL Lab ID: 1007010-09 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 15:57

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.52	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.3	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.52	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.56	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-2125

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-09R69.d Sampled: 06/29/10 12:28

Initial/Final: 5mL / 5mL Lab ID: 1007010-09 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 15:57

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.34	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.07	90	85 - 115	
1,2-Dichloroethane-d4	50.00	52.72	105	70 - 120	
Toluene-d8	50.00	48.69	97	85 - 120	
Bromofluorobenzene	50.00	43.38	87	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
541-05-9	Cyclotrisiloxane, hexamethyl- $$ Dimethy	6.6	278211	12.827	87	JN

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-3135

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-10R69.d Sampled: 06/29/10 13:04

Initial/Final: 5mL / 5mL Lab ID: 1007010-10 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 16:25

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.48	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.0	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.16	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.72	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene	38	0.42	0.50	5.0	
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-3135

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-10R69.d Sampled: 06/29/10 13:04

Initial/Final: 5mL / 5mL Lab ID: 1007010-10 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 16:25

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.77	90	85 - 115	
1,2-Dichloroethane-d4	50.00	51.71	103	70 - 120	
Toluene-d8	50.00	48.14	96	85 - 120	
Bromofluorobenzene	50.00	42.72	85	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000541-05-9	Cyclotrisiloxane, hexamethyl-	7.4	304936	12.822	91	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-4145

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-11R69.d | Sampled: 06/29/10 13:51

Initial/Final: 5mL / 5mL | Lab ID: 1007010-11 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 16:53

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.49	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.9	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.54	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-341-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-11R69.d Sampled: 06/29/10 13:51

Initial/Final: 5mL / 5mL Lab ID: 1007010-11 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 16:53

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.40	91	85 - 115	
1,2-Dichloroethane-d4	50.00	52.63	105	70 - 120	
Toluene-d8	50.00	48.16	96	85 - 120	
Bromofluorobenzene	50.00	41.87	84	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000541-05-9	Cyclotrisiloxane, hexamethyl-	5.7	240631	12.825	91	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-0359.d Sampled: 06/29/10 08:46

Initial/Final: 5mL / 5mL Lab ID: 1007010-03 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070619-BLK1 Prepared: 07/06/10 11:30

% Moisture: NA Analyzed: 07/06/10 17:57

Batch: 0070619 Sequence: 0G06002 Calibration: 0062901 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.7	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.44	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-0359.d Sampled: 06/29/10 08:46

Initial/Final: 5mL / 5mL Lab ID: 1007010-03 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070619-BLK1 Prepared: 07/06/10 11:30

% Moisture: NA Analyzed: 07/06/10 17:57

Batch: 0070619 Sequence: 0G06002 Calibration: 0062901 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.06	108	85 - 115	
1,2-Dichloroethane-d4	50.00	59.33	119	70 - 120	
Toluene-d8	50.00	53.71	107	85 - 120	
Bromofluorobenzene	50.00	57.37	115	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-2125

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-0459.d | Sampled: 06/29/10 09:09

Initial/Final: 5mL / 5mL | Lab ID: 1007010-04 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070619-BLK1 | Prepared: 07/06/10 11:30

% Moisture: NA | Analyzed: 07/06/10 18:24

Batch: 0070619 | Sequence: 0G06002 | Calibration: 0062901 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.9	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.41	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-2125

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-0459.d Sampled: 06/29/10 09:09

Initial/Final: 5mL / 5mL Lab ID: 1007010-04 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070619-BLK1 Prepared: 07/06/10 11:30

% Moisture: NA Analyzed: 07/06/10 18:24

Batch: 0070619 Sequence: 0G06002 Calibration: 0062901 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.62	109	85 - 115	
1,2-Dichloroethane-d4	50.00	59.96	120	70 - 120	
Toluene-d8	50.00	54.50	109	85 - 120	
Bromofluorobenzene	50.00	58.36	117	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-3135

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-05R69.d Sampled: 06/29/10 09:48

Initial/Final: 5mL / 5mL Lab ID: 1007010-05 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 14:03

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.45	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	4.0	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.16	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.56	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	2.5	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone	1.9	1.5	5.0	13	J
67-66-3	Chloroform	0.27	0.27	0.50	5.0	J
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone	1.8	1.1	1.3	13	JB
108-88-3	Toluene	0.98	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone	2.6	1.2	1.3	13	J
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-3135

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-05R69.d Sampled: 06/29/10 09:48

Initial/Final: 5mL / 5mL Lab ID: 1007010-05 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 14:03

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.33	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	0.73	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	0.48	0.50	5.0	JB
91-20-3	Naphthalene	4.0	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.81	90	85 - 115	
1,2-Dichloroethane-d4	50.00	48.54	97	70 - 120	
Toluene-d8	50.00	49.31	99	85 - 120	
Bromofluorobenzene	50.00	44.43	89	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000565-75-3	Pentane, 2,3,4-trimethyl-	11	487925	12.208	91	JN
NA	Unknown 12.306	11	525209	12.306	0	J
NA	Unknown 12.828	7.5	333826	12.828	0	J

ANALYSIS DATA SHEET

SW 8260B

DUP-20100629
SA-TW-342-3135

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-06R69.d | Sampled: 06/29/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1007010-06 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 14:32

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.48	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.0	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.19	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	2.5	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.54	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

DUP-20100629
SA-TW-342-3135

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-06R69.d | Sampled: 06/29/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1007010-06 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 14:32

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	0.56	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.26	91	85 - 115	
1,2-Dichloroethane-d4	50.00	51.38	103	70 - 120	
Toluene-d8	50.00	48.37	97	85 - 120	
Bromofluorobenzene	50.00	43.07	86	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
541-05-9	Cyclotrisiloxane, hexamethyl- $$ Dimethy	6.9	304832	12.822	91	JN
000565-75-3	Pentane, 2,3,4-trimethyl-	9.8	442374	12.212	91	JN
NA	Unknown 12.310	11	486019	12.31	0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-0159.d Sampled: 06/29/10 10:53

Initial/Final: 5mL / 5mL Lab ID: 1007010-01 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070619-BLK1 Prepared: 07/06/10 11:30

% Moisture: NA Analyzed: 07/06/10 16:09

Batch: 0070619 Sequence: 0G06002 Calibration: 0062901 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.5	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-342-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-0159.d Sampled: 06/29/10 10:53

Initial/Final: 5mL / 5mL Lab ID: 1007010-01 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070619-BLK1 Prepared: 07/06/10 11:30

% Moisture: NA Analyzed: 07/06/10 16:09

Batch: 0070619 Sequence: 0G06002 Calibration: 0062901 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	1.9	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.63	109	85 - 115	
1,2-Dichloroethane-d4	50.00	56.67	113	70 - 120	
Toluene-d8	50.00	53.23	106	85 - 120	
Bromofluorobenzene	50.00	57.25	114	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-12R69.d Sampled: 06/29/10 15:12

Initial/Final: 5mL / 5mL Lab ID: 1007010-12 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 17:21

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.43	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.5	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.50	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-12R69.d Sampled: 06/29/10 15:12

Initial/Final: 5mL / 5mL Lab ID: 1007010-12 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 17:21

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.12	90	85 - 115	
1,2-Dichloroethane-d4	50.00	53.34	107	70 - 120	
Toluene-d8	50.00	47.80	96	85 - 120	
Bromofluorobenzene	50.00	41.59	83	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
541-05-9	Cyclotrisiloxane, hexamethyl- $$ Dimethy	7.0	292868	12.828	91	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-2125

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1369.d Sampled: 06/29/10 15:37

Initial/Final: 5mL / 5mL Lab ID: 1007010-13 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 17:50

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.48	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	8.9	0.55	2.0	5.0	
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	0.78	0.53	2.0	5.0	J
67-64-1	Acetone	3.4	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	24	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.65	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.55	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	0.46	0.42	0.50	5.0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-2125

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1369.d Sampled: 06/29/10 15:37

Initial/Final: 5mL / 5mL Lab ID: 1007010-13 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 17:50

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	0.67	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.90	92	85 - 115	
1,2-Dichloroethane-d4	50.00	53.99	108	70 - 120	
Toluene-d8	50.00	47.72	95	85 - 120	
Bromofluorobenzene	50.00	41.17	82	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000541-05-9	Cyclotrisiloxane, hexamethyl-	6.3	256577	12.827	90	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-3135

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-1469.d | Sampled: 06/29/10 16:06

Initial/Final: 5mL / 5mL | Lab ID: 1007010-14 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 18:18

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.81	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride	3.8	0.48	0.50	5.0	J
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	800	0.55	2.0	5.0	E
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	60	0.53	2.0	5.0	
67-64-1	Acetone	5.6	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.77	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.84	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	830	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene	1.1	0.65	2.0	5.0	J
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	120	0.32	0.50	5.0	
110-82-7	Cyclohexane	4.7	0.45	0.50	5.0	J
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	3.8	0.28	0.50	5.0	J
79-01-6	Trichloroethene	1.3	0.28	0.50	5.0	J
108-87-2	Methylcyclohexane	2.5	0.35	0.50	5.0	J
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.95	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	19	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-3135

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1469.d Sampled: 06/29/10 16:06

Initial/Final: 5mL / 5mL Lab ID: 1007010-14 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 18:18

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	6.5	0.84	1.0	10	J
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	17	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.31	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	6.1	0.35	0.50	5.0	
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.54	0.48	0.50	5.0	JB
91-20-3	Naphthalene	98	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)	1.1	0.44	0.50	5.0	J
1330-20-7	Xylenes (total)	6.5	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	46.02	92	85 - 115	
1,2-Dichloroethane-d4	50.00	54.42	109	70 - 120	
Toluene-d8	50.00	47.24	94	85 - 120	
Bromofluorobenzene	50.00	39.46	79	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
4453-90-1	1,4-Methanonaphthalene, 1,4-dihydro- $$	11	1269481	18.963	94	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	8.2	954553	16.404	91	JN
000108-67-8	Benzene, 1,3,5-trimethyl-	5.6	651102	14.869	95	JN
000099-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	6.3	733063	15.893	93	JN
000103-65-1	Benzene, propyl-	7.3	842646	14.515	91	JN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	14	1616474	16.67	98	JN
000090-12-0	Naphthalene, 1-methyl-	8.3	958571	18.638	91	JN
109-66-0	Pentane	13	525709	6.682	90	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-3135DL

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-14D59.d Sampled: 06/29/10 16:06

Initial/Final: 5mL / 5mL Lab ID: 1007010-14RE1 Received: 07/01/10 09:10

Dilution: 7.14 pH: 1 Assoc Blank: 0071409-BLK1 Prepared: 07/14/10 12:56

% Moisture: NA Analyzed: 07/14/10 16:17

Batch: 0071409 Sequence: 0G14010 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		2.3	3.6	36	U
74-87-3	Chloromethane		2.8	3.6	36	U
75-01-4	Vinyl chloride		3.4	3.6	36	U
74-83-9	Bromomethane		5.4	14	36	U
75-00-3	Chloroethane	970	3.9	14	36	D
75-69-4	Trichlorofluoromethane		3.5	3.6	36	U
75-35-4	1,1-Dichloroethene	72	3.8	14	36	D
67-64-1	Acetone		11	36	89	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.9	14	36	U
75-15-0	Carbon disulfide		1.1	3.6	36	U
79-20-9	Methyl acetate		6.1	14	36	U
75-09-2	Methylene chloride	12	3.5	3.6	36	JBD
156-60-5	trans-1,2-Dichloroethene		3.1	3.6	36	U
1634-04-4	Methyl tert-butyl ether		1.6	3.6	36	U
75-34-3	1,1-Dichloroethane	1400	1.9	3.6	36	D
156-59-2	cis-1,2-Dichloroethene		4.6	14	36	U
78-93-3	2-Butanone		11	36	89	U
67-66-3	Chloroform		1.9	3.6	36	U
71-55-6	1,1,1-Trichloroethane	120	2.3	3.6	36	D
110-82-7	Cyclohexane		3.2	3.6	36	U
563-58-6	1,1-Dichloropropene		3.0	3.6	36	U
56-23-5	Carbon tetrachloride		2.2	3.6	36	U
107-06-2	1,2-Dichloroethane		1.6	3.6	36	U
71-43-2	Benzene	4.5	2.0	3.6	36	JD
79-01-6	Trichloroethene		2.0	3.6	36	U
108-87-2	Methylcyclohexane	3.1	2.5	3.6	36	JD
78-87-5	1,2-Dichloropropane		6.1	14	36	U
75-27-4	Bromodichloromethane		2.6	3.6	36	U
10061-01-5	cis-1,3-Dichloropropene		3.7	14	36	U
108-10-1	4-Methyl-2-pentanone		7.9	8.9	89	U
108-88-3	Toluene	4.3	2.2	3.6	36	JBD
10061-02-6	trans-1,3-Dichloropropene		3.2	3.6	36	U
79-00-5	1,1,2-Trichloroethane		3.6	14	36	U
127-18-4	Tetrachloroethene		3.0	3.6	36	U
591-78-6	2-Hexanone		8.6	8.9	89	U
124-48-1	Dibromochloromethane		2.3	3.6	36	U
106-93-4	1,2-Dibromoethane		3.1	3.6	36	U
108-90-7	Chlorobenzene		1.9	3.6	36	U
100-41-4	Ethylbenzene	21	3.0	3.6	36	JD

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-3135DL

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-14D59.d | Sampled: 06/29/10 16:06

Initial/Final: 5mL / 5mL | Lab ID: 1007010-14RE1 | Received: 07/01/10 09:10

Dilution: 7.14 | pH: 1 | Assoc Blank: 0071409-BLK1 | Prepared: 07/14/10 12:56

% Moisture: NA | Analyzed: 07/14/10 16:17

Batch: 0071409 | Sequence: 0G14010 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	7.4	6.0	7.1	71	JD
95-47-6	o-Xylene		1.8	3.6	36	U
100-42-5	Styrene		2.6	3.6	36	U
75-25-2	Bromoform		6.8	14	36	U
98-82-8	Isopropylbenzene	19	1.9	3.6	36	JD
79-34-5	1,1,2,2-Tetrachloroethane		4.6	14	36	U
541-73-1	1,3-Dichlorobenzene		2.6	3.6	36	U
106-46-7	1,4-Dichlorobenzene		2.1	3.6	36	U
95-50-1	1,2-Dichlorobenzene	6.2	2.5	3.6	36	JD
96-12-8	1,2-Dibromo-3-chloropropane		6.5	14	36	U
120-82-1	1,2,4-Trichlorobenzene		3.4	3.6	36	U
91-20-3	Naphthalene	88	7.9	14	36	BD
540-59-0	1,2-Dichloroethene (total)		3.1	3.6	36	U
1330-20-7	Xylenes (total)	7.4	1.8	3.6	36	JD

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.49	101	85 - 115	
1,2-Dichloroethane-d4	50.00	54.55	109	70 - 120	
Toluene-d8	50.00	56.74	113	85 - 120	
Bromofluorobenzene	50.00	56.19	112	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1569.d Sampled: 06/29/10 16:59

Initial/Final: 5mL / 5mL Lab ID: 1007010-15 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 18:46

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.43	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	4.1	0.55	2.0	5.0	J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.9	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.52	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	14	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	2.1	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.74	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1569.d Sampled: 06/29/10 16:59

Initial/Final: 5mL / 5mL Lab ID: 1007010-15 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 18:46

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	4.9	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.84	90	85 - 115	
1,2-Dichloroethane-d4	50.00	53.66	107	70 - 120	
Toluene-d8	50.00	48.31	97	85 - 120	
Bromofluorobenzene	50.00	42.19	84	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
2443-46-1	Bicyclo[4.4.1]undeca-1,3,5,7,9-pentaene	6.8	284056	18.959	91	JN
541-05-9	Cyclotrisiloxane, hexamethyl- $$ Dimethy	5.8	236660	12.828	91	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-4145RE

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-15R59.d | Sampled: 06/29/10 16:59

Initial/Final: 5mL / 5mL | Lab ID: 1007010-15RE1 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0071409-BLK1 | Prepared: 07/14/10 12:56

% Moisture: NA | Analyzed: 07/14/10 15:50

Batch: 0071409 | Sequence: 0G14010 | Calibration: 0071501 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	4.1	0.55	2.0	5.0	J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.3	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	13	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.9	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.69	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-343-4145RE

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-15R59.d Sampled: 06/29/10 16:59

Initial/Final: 5mL / 5mL Lab ID: 1007010-15RE1 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0071409-BLK1 Prepared: 07/14/10 12:56

% Moisture: NA Analyzed: 07/14/10 15:50

Batch: 0071409 Sequence: 0G14010 Calibration: 0071501 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	51.15	102	85 - 115	
1,2-Dichloroethane-d4	50.00	55.23	110	70 - 120	
Toluene-d8	50.00	56.21	112	85 - 120	
Bromofluorobenzene	50.00	57.56	115	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1669.d Sampled: 06/30/10 09:24

Initial/Final: 5mL / 5mL Lab ID: 1007010-16 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 19:15

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.61	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.3	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.53	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-1115

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1669.d Sampled: 06/30/10 09:24

Initial/Final: 5mL / 5mL Lab ID: 1007010-16 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 19:15

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.08	90	85 - 115	
1,2-Dichloroethane-d4	50.00	51.94	104	70 - 120	
Toluene-d8	50.00	49.00	98	85 - 120	
Bromofluorobenzene	50.00	41.95	84	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
541-05-9	Cyclotrisiloxane, hexamethyl- $$ Dimethy	5.9	235307	12.827	87	JN
NA	Unknown 15.356	5.2	210346	15.356	0	J

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-2125

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1769.d Sampled: 06/30/10 09:50

Initial/Final: 5mL / 5mL Lab ID: 1007010-17 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 19:43

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.55	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.1	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.43	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-2125

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-1769.d | Sampled: 06/30/10 09:50

Initial/Final: 5mL / 5mL | Lab ID: 1007010-17 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 19:43

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene	0.57	0.30	0.50	5.0	J
95-50-1	1,2-Dichlorobenzene	0.49	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	45.34	91	85 - 115	
1,2-Dichloroethane-d4	50.00	54.58	109	70 - 120	
Toluene-d8	50.00	47.68	95	85 - 120	
Bromofluorobenzene	50.00	42.46	85	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-3135

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-1869.d | Sampled: 06/30/10 10:20

Initial/Final: 5mL / 5mL | Lab ID: 1007010-18 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 20:11

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.4	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.16	0.16	0.50	5.0	J
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether	0.28	0.22	0.50	5.0	J
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.1	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.64	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-3135

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1869.d Sampled: 06/30/10 10:20

Initial/Final: 5mL / 5mL Lab ID: 1007010-18 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 20:11

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.02	88	85 - 115	
1,2-Dichloroethane-d4	50.00	53.08	106	70 - 120	
Toluene-d8	50.00	49.13	98	85 - 120	
Bromofluorobenzene	50.00	42.94	86	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1969.d Sampled: 06/30/10 11:18

Initial/Final: 5mL / 5mL Lab ID: 1007010-19 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 20:39

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.43	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.5	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.64	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-344-4145

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-1969.d Sampled: 06/30/10 11:18

Initial/Final: 5mL / 5mL Lab ID: 1007010-19 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 20:39

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.38	89	85 - 115	
1,2-Dichloroethane-d4	50.00	51.54	103	70 - 120	
Toluene-d8	50.00	49.00	98	85 - 120	
Bromofluorobenzene	50.00	44.11	88	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-345

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0369.d Sampled: 06/28/10 10:00

Initial/Final: 5mL / 5mL Lab ID: 1007009-03 Received: 07/01/10 09:10

Dilution: 1 pH: 3 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 20:59

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.75	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	7.5	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide	0.20	0.16	0.50	5.0	JB
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	5.0	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.1	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-345

Client: TETRA TECH SDG 1007009 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007009-0369.d Sampled: 06/28/10 10:00

Initial/Final: 5mL / 5mL Lab ID: 1007009-03 Received: 07/01/10 09:10

Dilution: 1 pH: 3 Assoc Blank: 0070629-BLK1 Prepared: 07/06/10 17:18

% Moisture: NA Analyzed: 07/06/10 20:59

Batch: 0070629 Sequence: 0G06001 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene	0.42	0.25	0.50	5.0	J
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	1.2	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	0.42	0.25	0.50	5.0	J

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.52	89	85 - 115	
1,2-Dichloroethane-d4	50.00	52.99	106	70 - 120	
Toluene-d8	50.00	49.38	99	85 - 120	
Bromofluorobenzene	50.00	44.44	89	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-1115

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0759.d Sampled: 09/07/10 12:45

Initial/Final: 5mL / 5mL Lab ID: 1009071-07 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 20:11

Batch: 0091325 Sequence: 0I13016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.95	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-1115

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0759.d Sampled: 09/07/10 12:45

Initial/Final: 5mL / 5mL Lab ID: 1009071-07 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 20:11

Batch: 0091325 Sequence: 0113016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.92	106	85 - 115	
1,2-Dichloroethane-d4	50.00	59.91	120	70 - 120	
Toluene-d8	50.00	52.66	105	85 - 120	
Bromofluorobenzene	50.00	52.96	106	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-08R59.d Sampled: 09/07/10 13:09

Initial/Final: 5mL / 5mL Lab ID: 1009071-08 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 14:29

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.0	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.57	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-08R59.d Sampled: 09/07/10 13:09

Initial/Final: 5mL / 5mL Lab ID: 1009071-08 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 14:29

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.58	111	85 - 115	
1,2-Dichloroethane-d4	50.00	55.99	112	70 - 120	
Toluene-d8	50.00	49.44	99	85 - 120	
Bromofluorobenzene	50.00	48.34	97	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-3135

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-09R59.d Sampled: 09/07/10 13:35

Initial/Final: 5mL / 5mL Lab ID: 1009071-09 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 14:56

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U J
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U J
75-00-3	Chloroethane		0.55	2.0	5.0	U J
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	38	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	15	0.32	0.50	5.0	
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.84	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-3135

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-09R59.d | Sampled: 09/07/10 13:35

Initial/Final: 5mL / 5mL | Lab ID: 1009071-09 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091426-BLK1 | Prepared: 09/14/10 12:32

% Moisture: NA | Analyzed: 09/14/10 14:56

Batch: 0091426 | Sequence: 0114004 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.04	112	85 - 115	
1,2-Dichloroethane-d4	50.00	56.99	114	70 - 120	
Toluene-d8	50.00	50.46	101	85 - 120	
Bromofluorobenzene	50.00	52.60	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-4145

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-10R59.d | Sampled: 09/07/10 14:30

Initial/Final: 5mL / 5mL | Lab ID: 1009071-10 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091426-BLK1 | Prepared: 09/14/10 12:32

% Moisture: NA | Analyzed: 09/14/10 15:23

Batch: 0091426 | Sequence: 0I14004 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.65	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW346-4145

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-10R59.d Sampled: 09/07/10 14:30

Initial/Final: 5mL / 5mL Lab ID: 1009071-10 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 15:23

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.96	110	85 - 115	
1,2-Dichloroethane-d4	50.00	58.09	116	70 - 120	
Toluene-d8	50.00	50.69	101	85 - 120	
Bromofluorobenzene	50.00	52.67	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-1115

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1159.d Sampled: 09/09/10 12:20

Initial/Final: 5mL / 5mL Lab ID: 1009073-11 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 19:00

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.70	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-1115

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1159.d Sampled: 09/09/10 12:20

Initial/Final: 5mL / 5mL Lab ID: 1009073-11 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 19:00

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	6.6	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.17	110	85 - 115	
1,2-Dichloroethane-d4	50.00	55.51	111	70 - 120	
Toluene-d8	50.00	50.04	100	85 - 120	
Bromofluorobenzene	50.00	51.60	103	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-2125

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1259.d Sampled: 09/09/10 12:43

Initial/Final: 5mL / 5mL Lab ID: 1009073-12 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 19:27

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.3	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.66	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-2125

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1259.d Sampled: 09/09/10 12:43

Initial/Final: 5mL / 5mL Lab ID: 1009073-12 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 19:27

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.58	109	85 - 115	
1,2-Dichloroethane-d4	50.00	55.90	112	70 - 120	
Toluene-d8	50.00	49.14	98	85 - 120	
Bromofluorobenzene	50.00	52.31	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-3135

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-1359.d | Sampled: 09/09/10 13:09

Initial/Final: 5mL / 5mL | Lab ID: 1009073-13 | Received: 09/11/10 10:40

Dilution: 1 | pH: 1 | Assoc Blank: 0091426-BLK1 | Prepared: 09/14/10 12:32

% Moisture: NA | Analyzed: 09/14/10 19:55

Batch: 0091426 | Sequence: 0114004 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	0.70	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.2	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.40	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-3135

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1359.d Sampled: 09/09/10 13:09

Initial/Final: 5mL / 5mL Lab ID: 1009073-13 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 19:55

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.62	111	85 - 115	
1,2-Dichloroethane-d4	50.00	56.35	113	70 - 120	
Toluene-d8	50.00	49.40	99	85 - 120	
Bromofluorobenzene	50.00	51.91	104	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW347-3135
SA-TWDUP03
~~SA-TWDup03-20100909~~

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-1459.d | Sampled: 09/09/10 16:00

Initial/Final: 5mL / 5mL | Lab ID: 1009073-14 | Received: 09/11/10 10:40

Dilution: 1 | pH: 1 | Assoc Blank: 0091426-BLK1 | Prepared: 09/14/10 12:32

% Moisture: NA | Analyzed: 09/14/10 20:22

Batch: 0091426 | Sequence: 0I14004 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.61	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW-347-3135
SA-TWDUP03

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1459.d Sampled: 09/09/10 16:00

Initial/Final: 5mL / 5mL Lab ID: 1009073-14 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 20:22

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	57.24	114	85 - 115	
1,2-Dichloroethane-d4	50.00	59.43	119	70 - 120	
Toluene-d8	50.00	51.41	103	85 - 120	
Bromofluorobenzene	50.00	52.21	104	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-1115

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1559.d Sampled: 09/09/10 14:44

Initial/Final: 5mL / 5mL Lab ID: 1009073-15 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 20:49

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.40	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-1115

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-1559.d | Sampled: 09/09/10 14:44

Initial/Final: 5mL / 5mL | Lab ID: 1009073-15 | Received: 09/11/10 10:40

Dilution: 1 | pH: 1 | Assoc Blank: 0091426-BLK1 | Prepared: 09/14/10 12:32

% Moisture: NA | Analyzed: 09/14/10 20:49

Batch: 0091426 | Sequence: 0114004 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	0.52	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.27	113	85 - 115	
1,2-Dichloroethane-d4	50.00	59.52	119	70 - 120	
Toluene-d8	50.00	49.29	99	85 - 120	
Bromofluorobenzene	50.00	51.15	102	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-2125

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1659.d Sampled: 09/09/10 15:04

Initial/Final: 5mL / 5mL Lab ID: 1009073-16 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 21:17

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	320	0.55	2.0	5.0	E
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	72	0.53	2.0	5.0	
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	960	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	450	0.32	0.50	5.0	E
110-82-7	Cyclohexane	5.6	0.45	0.50	5.0	
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	4.6	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane	7.1	0.35	0.50	5.0	
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.0	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	120	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-2125

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1659.d Sampled: 09/09/10 15:04

Initial/Final: 5mL / 5mL Lab ID: 1009073-16 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 21:17

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	65	0.84	1.0	10	
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	35	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	3.8	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	200	1.1	2.0	5.0	BE
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	65	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.32	109	85 - 115	
1,2-Dichloroethane-d4	50.00	57.73	115	70 - 120	
Toluene-d8	50.00	49.35	99	85 - 120	
Bromofluorobenzene	50.00	45.88	92	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000824-90-8	1-Phenyl-1-butene	5.6	793067	15.942	90	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	55	7859066	14.898	95	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	11	1638140	16.179	96	JN
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	7.4	1050936	15.745	96	JN
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	7.1	1006916	16.061	96	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	9.9	1415568	15.647	91	JN
535-77-3	Benzene, 1-methyl-3-(1-methylethyl)- $$	5.5	783973	15.893	87	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	13	1798261	16.642	94	JN
103-65-1	Benzene, propyl- $$ n-Propylbenzene $$ I	9.2	1310564	14.483	91	JN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	15	2104414	16.938	95	JN
91-57-6	Naphthalene, 2-methyl- $$ .beta.-Methyln	7.4	1057189	19.531	95	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-2125DL

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-16D69.d | Sampled: 09/09/10 15:04

Initial/Final: 5mL / 5mL | Lab ID: 1009073-16RE1 | Received: 09/11/10 10:40

Dilution: 10 | pH: 1 | Assoc Blank: 0091431-BLK1 | Prepared: 09/14/10 16:03

% Moisture: NA | Analyzed: 09/14/10 23:06

Batch: 0091431 | Sequence: 0I14010 | Calibration: 0092408 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		3.2	5.0	50	U
74-87-3	Chloromethane		3.9	5.0	50	U
75-01-4	Vinyl chloride		4.8	5.0	50	U
74-83-9	Bromomethane		7.6	20	50	U
75-00-3	Chloroethane	340	5.5	20	50	D
75-69-4	Trichlorofluoromethane		4.9	5.0	50	U
75-35-4	1,1-Dichloroethene	68	5.3	20	50	D
67-64-1	Acetone		16	50	130	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		8.2	20	50	U
75-15-0	Carbon disulfide		1.6	5.0	50	U
79-20-9	Methyl acetate		8.6	20	50	U
75-09-2	Methylene chloride		4.9	5.0	50	U
156-60-5	trans-1,2-Dichloroethene		4.4	5.0	50	U
1634-04-4	Methyl tert-butyl ether		2.2	5.0	50	U
75-34-3	1,1-Dichloroethane	1500	2.7	5.0	50	D
156-59-2	cis-1,2-Dichloroethene		6.5	20	50	U
78-93-3	2-Butanone		15	50	130	U
67-66-3	Chloroform		2.7	5.0	50	U
71-55-6	1,1,1-Trichloroethane	550	3.2	5.0	50	D
110-82-7	Cyclohexane		4.5	5.0	50	U
563-58-6	1,1-Dichloropropene		4.2	5.0	50	U
56-23-5	Carbon tetrachloride		3.1	5.0	50	U
107-06-2	1,2-Dichloroethane		2.3	5.0	50	U
71-43-2	Benzene		2.8	5.0	50	U
79-01-6	Trichloroethene		2.8	5.0	50	U
108-87-2	Methylcyclohexane		3.5	5.0	50	U
78-87-5	1,2-Dichloropropane		8.6	20	50	U
75-27-4	Bromodichloromethane		3.6	5.0	50	U
10061-01-5	cis-1,3-Dichloropropene		5.2	20	50	U
108-10-1	4-Methyl-2-pentanone		11	13	130	U
108-88-3	Toluene	14	3.1	5.0	50	JBD
10061-02-6	trans-1,3-Dichloropropene		4.5	5.0	50	U
79-00-5	1,1,2-Trichloroethane		5.1	20	50	U
127-18-4	Tetrachloroethene		4.2	5.0	50	U
591-78-6	2-Hexanone		12	13	130	U
124-48-1	Dibromochloromethane		3.2	5.0	50	U
106-93-4	1,2-Dibromoethane		4.4	5.0	50	U
108-90-7	Chlorobenzene		2.7	5.0	50	U
100-41-4	Ethylbenzene	140	4.2	5.0	50	D

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-2125DL

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-16D69.d | Sampled: 09/09/10 15:04

Initial/Final: 5mL / 5mL | Lab ID: 1009073-16RE1 | Received: 09/11/10 10:40

Dilution: 10 | pH: 1 | Assoc Blank: 0091431-BLK1 | Prepared: 09/14/10 16:03

% Moisture: NA | Analyzed: 09/14/10 23:06

Batch: 0091431 | Sequence: 0I14010 | Calibration: 0092408 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	70	8.4	10	100	JD
95-47-6	o-Xylene		2.5	5.0	50	U
100-42-5	Styrene		3.6	5.0	50	U
75-25-2	Bromoform		9.5	20	50	U
98-82-8	Isopropylbenzene	31	2.7	5.0	50	JD
79-34-5	1,1,2,2-Tetrachloroethane		6.4	20	50	U
541-73-1	1,3-Dichlorobenzene		3.6	5.0	50	U
106-46-7	1,4-Dichlorobenzene		3.0	5.0	50	U
95-50-1	1,2-Dichlorobenzene		3.5	5.0	50	U
96-12-8	1,2-Dibromo-3-chloropropane		9.1	20	50	U
120-82-1	1,2,4-Trichlorobenzene		4.8	5.0	50	U
91-20-3	Naphthalene	190	11	20	50	D
540-59-0	1,2-Dichloroethene (total)		4.4	5.0	50	U
1330-20-7	Xylenes (total)	70	2.5	5.0	50	D

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.42	101	85 - 115	
1,2-Dichloroethane-d4	50.00	48.92	98	70 - 120	
Toluene-d8	50.00	49.10	98	85 - 120	
Bromofluorobenzene	50.00	46.06	92	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
526-73-8	Benzene, 1,2,3-trimethyl- $$ Hemimellite	220	1139070	14.914	94	JDN
57.1644745	Benzene, 1,2,3-trimethyl- $$ Hemimellite [mean	220	1139070	14.914	94	JDN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	69	357491	16.116	91	JDN
34.6498778	Benzene, 1,2,4,5-tetramethyl- [mean]	69	357491	16.116	91	JDN
NA	Unknown 16.805	68	352811	16.805	0	JD
34.1962472	Unknown 16.805 [mean]	68	352811	16.805		JD

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-3135

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-17R69.d Sampled: 09/09/10 15:26

Initial/Final: 5mL / 5mL Lab ID: 1009073-17 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 22:39

Batch: 0091431 Sequence: 0114010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	5.2	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	4.0	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.4	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW348-3135

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-17R69.d Sampled: 09/09/10 15:26

Initial/Final: 5mL / 5mL Lab ID: 1009073-17 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 22:39

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.09	100	85 - 115	
1,2-Dichloroethane-d4	50.00	49.82	100	70 - 120	
Toluene-d8	50.00	48.23	96	85 - 120	
Bromofluorobenzene	50.00	49.26	99	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
35.4583218	Unk. Alkane [mean]	7.1	171636	12.211		J

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-TW349-1115

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0869.d Sampled: 09/09/10 10:39

Initial/Final: 5mL / 5mL Lab ID: 1009073-08 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/14/10 00:51

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.45	0.39	0.50	5.0	J
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.9	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	3.2	0.28	0.50	5.0	J
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.1	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	50	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-1115

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0869.d Sampled: 09/09/10 10:39

Initial/Final: 5mL / 5mL Lab ID: 1009073-08 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/14/10 00:51

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	120	0.84	1.0	10	
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	15	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	63	1.1	2.0	5.0	
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	120	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.36	107	85 - 115	
1,2-Dichloroethane-d4	50.00	58.24	116	70 - 120	
Toluene-d8	50.00	48.53	97	85 - 120	
Bromofluorobenzene	50.00	52.27	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000526-73-8	Benzene, 1,2,3-trimethyl-	59	4499379	14.919	95	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	6.3	476075	16.544	91	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	5.9	446545	15.628	90	JN
000103-65-1	Benzene, propyl-	7.9	605291	14.534	83	J
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	12	919461	16.81	94	JN
NA	Unknown 14.603	13	1017478	14.603	0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-2125

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0959.d Sampled: 09/09/10 10:58

Initial/Final: 5mL / 5mL Lab ID: 1009073-09 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 18:06

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	530	0.55	2.0	5.0	E
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	61	0.53	2.0	5.0	
67-64-1	Acetone	7.2	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	870	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	690	0.32	0.50	5.0	E
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	2.0	0.28	0.50	5.0	J
79-01-6	Trichloroethene	1.2	0.28	0.50	5.0	J
108-87-2	Methylcyclohexane	2.0	0.35	0.50	5.0	J
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.73	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	3.3	0.42	0.50	5.0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-2125

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0959.d Sampled: 09/09/10 10:58

Initial/Final: 5mL / 5mL Lab ID: 1009073-09 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 18:06

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene	1.3	0.84	1.0	10	J
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	6.3	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	1.7	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	61	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	1.3	0.25	0.50	5.0	J

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.94	114	85 - 115	
1,2-Dichloroethane-d4	50.00	60.22	120	70 - 120	
Toluene-d8	50.00	49.12	98	85 - 120	
Bromofluorobenzene	50.00	50.61	101	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
824-90-8	1-Phenyl-1-butene $$ Benzene, 1-butenyl	8.8	239808	15.95	87	JN
119-64-2	Naphthalene, 1,2,3,4-tetrahydro- $$ Benz	7.5	205614	16.946	91	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-2125DL

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-09D69.d | Sampled: 09/09/10 10:58

Initial/Final: 5mL / 5mL | Lab ID: 1009073-09RE1 | Received: 09/11/10 10:40

Dilution: 7.69 | pH: 1 | Assoc Blank: 0091431-BLK1 | Prepared: 09/14/10 16:03

% Moisture: NA | Analyzed: 09/14/10 21:44

Batch: 0091431 | Sequence: 0I14010 | Calibration: 0092408 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		2.5	3.8	38	U
74-87-3	Chloromethane		3.0	3.8	38	U
75-01-4	Vinyl chloride		3.7	3.8	38	U
74-83-9	Bromomethane		5.8	15	38	U
75-00-3	Chloroethane	500	4.2	15	38	D
75-69-4	Trichlorofluoromethane		3.8	3.8	38	U
75-35-4	1,1-Dichloroethene	62	4.1	15	38	D
67-64-1	Acetone		12	38	96	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		6.3	15	38	U
75-15-0	Carbon disulfide		1.2	3.8	38	U
79-20-9	Methyl acetate		6.6	15	38	U
75-09-2	Methylene chloride		3.8	3.8	38	U
156-60-5	trans-1,2-Dichloroethene		3.4	3.8	38	U
1634-04-4	Methyl tert-butyl ether		1.7	3.8	38	U
75-34-3	1,1-Dichloroethane	1200	2.1	3.8	38	D
156-59-2	cis-1,2-Dichloroethene		5.0	15	38	U
78-93-3	2-Butanone		12	38	96	U
67-66-3	Chloroform		2.1	3.8	38	U
71-55-6	1,1,1-Trichloroethane	830	2.5	3.8	38	D
110-82-7	Cyclohexane		3.5	3.8	38	U
563-58-6	1,1-Dichloropropene		3.2	3.8	38	U
56-23-5	Carbon tetrachloride		2.4	3.8	38	U
107-06-2	1,2-Dichloroethane		1.8	3.8	38	U
71-43-2	Benzene		2.2	3.8	38	U
79-01-6	Trichloroethene		2.2	3.8	38	U
108-87-2	Methylcyclohexane		2.7	3.8	38	U
78-87-5	1,2-Dichloropropane		6.6	15	38	U
75-27-4	Bromodichloromethane		2.8	3.8	38	U
10061-01-5	cis-1,3-Dichloropropene		4.0	15	38	U
108-10-1	4-Methyl-2-pentanone		8.5	9.6	96	U
108-88-3	Toluene	5.6	2.4	3.8	38	JBD
10061-02-6	trans-1,3-Dichloropropene		3.5	3.8	38	U
79-00-5	1,1,2-Trichloroethane		3.9	15	38	U
127-18-4	Tetrachloroethene		3.2	3.8	38	U
591-78-6	2-Hexanone		9.2	9.6	96	U
124-48-1	Dibromochloromethane		2.5	3.8	38	U
106-93-4	1,2-Dibromoethane		3.4	3.8	38	U
108-90-7	Chlorobenzene		2.1	3.8	38	U
100-41-4	Ethylbenzene		3.2	3.8	38	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-2125DL

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-09D69.d Sampled: 09/09/10 10:58

Initial/Final: 5mL / 5mL Lab ID: 1009073-09RE1 Received: 09/11/10 10:40

Dilution: 7.69 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 21:44

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		6.5	7.7	77	U
95-47-6	o-Xylene		1.9	3.8	38	U
100-42-5	Styrene		2.8	3.8	38	U
75-25-2	Bromoform		7.3	15	38	U
98-82-8	Isopropylbenzene		2.1	3.8	38	U
79-34-5	1,1,2,2-Tetrachloroethane		4.9	15	38	U
541-73-1	1,3-Dichlorobenzene		2.8	3.8	38	U
106-46-7	1,4-Dichlorobenzene		2.3	3.8	38	U
95-50-1	1,2-Dichlorobenzene		2.7	3.8	38	U
96-12-8	1,2-Dibromo-3-chloropropane		7.0	15	38	U
120-82-1	1,2,4-Trichlorobenzene		3.7	3.8	38	U
91-20-3	Naphthalene	69	8.5	15	38	D
540-59-0	1,2-Dichloroethene (total)		3.4	3.8	38	U
1330-20-7	Xylenes (total)		1.9	3.8	38	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.96	102	85 - 115	
1,2-Dichloroethane-d4	50.00	49.99	100	70 - 120	
Toluene-d8	50.00	48.84	98	85 - 120	
Bromofluorobenzene	50.00	47.83	96	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-3135

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1059.d Sampled: 09/09/10 11:24

Initial/Final: 5mL / 5mL Lab ID: 1009073-10 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 18:33

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane	240	0.55	2.0	5.0	E
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	76	0.53	2.0	5.0	
67-64-1	Acetone	6.6	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.46	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	810	0.27	0.50	5.0	E
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	850	0.32	0.50	5.0	E
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene	17	0.28	0.50	5.0	
79-01-6	Trichloroethene	0.95	0.28	0.50	5.0	J
108-87-2	Methylcyclohexane	2.4	0.35	0.50	5.0	J
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.92	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene	16	0.42	0.50	5.0	

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-3135

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1059.d Sampled: 09/09/10 11:24

Initial/Final: 5mL / 5mL Lab ID: 1009073-10 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 18:33

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene	17	0.25	0.50	5.0	
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	17	0.27	0.50	5.0	
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene	2.5	0.35	0.50	5.0	J
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	150	1.1	2.0	5.0	B
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)	17	0.25	0.50	5.0	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.35	113	85 - 115	
1,2-Dichloroethane-d4	50.00	55.37	111	70 - 120	
Toluene-d8	50.00	50.42	101	85 - 120	
Bromofluorobenzene	50.00	48.10	96	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	8.3	678045	16.645	93	JN
95-63-6	Benzene, 1,2,4-trimethyl- $$ .psi.-Cumen	31	2498124	14.9	95	JN
001074-17-5	Benzene, 1-methyl-2-propyl-	13	1100731	15.61	87	JN
000103-65-1	Benzene, propyl-	9.1	744077	14.486	91	JN
000767-58-8	Indan, 1-methyl-	5.8	471901	15.945	90	JN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	12	984399	16.941	97	JN

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-3135DL

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-10D69.d Sampled: 09/09/10 11:24

Initial/Final: 5mL / 5mL Lab ID: 1009073-10RE1 Received: 09/11/10 10:40

Dilution: 7.69 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 22:12

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		2.5	3.8	38	U
74-87-3	Chloromethane		3.0	3.8	38	U
75-01-4	Vinyl chloride		3.7	3.8	38	U
74-83-9	Bromomethane		5.8	15	38	U
75-00-3	Chloroethane	250	4.2	15	38	D
75-69-4	Trichlorofluoromethane		3.8	3.8	38	U
75-35-4	1,1-Dichloroethene	73	4.1	15	38	D
67-64-1	Acetone		12	38	96	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		6.3	15	38	U
75-15-0	Carbon disulfide		1.2	3.8	38	U
79-20-9	Methyl acetate		6.6	15	38	U
75-09-2	Methylene chloride		3.8	3.8	38	U
156-60-5	trans-1,2-Dichloroethene		3.4	3.8	38	U
1634-04-4	Methyl tert-butyl ether		1.7	3.8	38	U
75-34-3	1,1-Dichloroethane	1300	2.1	3.8	38	D
156-59-2	cis-1,2-Dichloroethene		5.0	15	38	U
78-93-3	2-Butanone		12	38	96	U
67-66-3	Chloroform		2.1	3.8	38	U
71-55-6	1,1,1-Trichloroethane	1200	2.5	3.8	38	D
110-82-7	Cyclohexane		3.5	3.8	38	U
563-58-6	1,1-Dichloropropene		3.2	3.8	38	U
56-23-5	Carbon tetrachloride		2.4	3.8	38	U
107-06-2	1,2-Dichloroethane		1.8	3.8	38	U
71-43-2	Benzene	18	2.2	3.8	38	JD
79-01-6	Trichloroethene		2.2	3.8	38	U
108-87-2	Methylcyclohexane		2.7	3.8	38	U
78-87-5	1,2-Dichloropropane		6.6	15	38	U
75-27-4	Bromodichloromethane		2.8	3.8	38	U
10061-01-5	cis-1,3-Dichloropropene		4.0	15	38	U
108-10-1	4-Methyl-2-pentanone		8.5	9.6	96	U
108-88-3	Toluene	5.6	2.4	3.8	38	JBD
10061-02-6	trans-1,3-Dichloropropene		3.5	3.8	38	U
79-00-5	1,1,2-Trichloroethane		3.9	15	38	U
127-18-4	Tetrachloroethene		3.2	3.8	38	U
591-78-6	2-Hexanone		9.2	9.6	96	U
124-48-1	Dibromochloromethane		2.5	3.8	38	U
106-93-4	1,2-Dibromoethane		3.4	3.8	38	U
108-90-7	Chlorobenzene		2.1	3.8	38	U
100-41-4	Ethylbenzene		3.2	3.8	38	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW349-3135DL

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-10D69.d Sampled: 09/09/10 11:24

Initial/Final: 5mL / 5mL Lab ID: 1009073-10RE1 Received: 09/11/10 10:40

Dilution: 7.69 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 22:12

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		6.5	7.7	77	U
95-47-6	o-Xylene		1.9	3.8	38	U
100-42-5	Styrene		2.8	3.8	38	U
75-25-2	Bromoform		7.3	15	38	U
98-82-8	Isopropylbenzene	16	2.1	3.8	38	JD
79-34-5	1,1,2,2-Tetrachloroethane		4.9	15	38	U
541-73-1	1,3-Dichlorobenzene		2.8	3.8	38	U
106-46-7	1,4-Dichlorobenzene		2.3	3.8	38	U
95-50-1	1,2-Dichlorobenzene		2.7	3.8	38	U
96-12-8	1,2-Dibromo-3-chloropropane		7.0	15	38	U
120-82-1	1,2,4-Trichlorobenzene		3.7	3.8	38	U
91-20-3	Naphthalene	170	8.5	15	38	D
540-59-0	1,2-Dichloroethene (total)		3.4	3.8	38	U
1330-20-7	Xylenes (total)		1.9	3.8	38	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.28	101	85 - 115	
1,2-Dichloroethane-d4	50.00	49.72	99	70 - 120	
Toluene-d8	50.00	47.45	95	85 - 120	
Bromofluorobenzene	50.00	45.67	91	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
526-73-8	Benzene, 1,2,3-trimethyl- $$ Hemimellite	88	521526	14.916	93	JDN
57.1644745	Benzene, 1,2,3-trimethyl- $$ Hemimellite [mean	88	521526	14.916	93	JDN
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	47	278217	16.807	94	JDN
30.4954198	Naphthalene, 1,2,3,4-tetrahydro- [mean]	47	278217	16.807	94	JDN

ANALYSIS DATA SHEET

SW 8260B

SA-TW350-1115

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-11R59.d Sampled: 09/07/10 15:26

Initial/Final: 5mL / 5mL Lab ID: 1009071-11 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 15:50

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.61	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW350-1115

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-11R59.d Sampled: 09/07/10 15:26

Initial/Final: 5mL / 5mL Lab ID: 1009071-11 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 15:50

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene	1.8	0.27	0.50	5.0	J
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	1.6	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	57.06	114	85 - 115	
1,2-Dichloroethane-d4	50.00	58.28	117	70 - 120	
Toluene-d8	50.00	49.82	100	85 - 120	
Bromofluorobenzene	50.00	49.27	99	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
000135-98-8	Benzene, (1-methylpropyl)-	13	349170	15.032	91	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	21	553067	16.127	95	JN
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	12	321114	15.752	95	JN
1758-88-9	Benzene, 2-ethyl-1,4-dimethyl- $$ p-Xyle	6.8	182294	15.654	91	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	21	555009	16.649	93	JN
NA	Unknown 15.604	8.6	230745	15.604	0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW350-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-12R59.d Sampled: 09/07/10 15:49

Initial/Final: 5mL / 5mL Lab ID: 1009071-12 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 16:18

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.73	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW350-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-12R59.d Sampled: 09/07/10 15:49

Initial/Final: 5mL / 5mL Lab ID: 1009071-12 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 16:18

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.74	109	85 - 115	
1,2-Dichloroethane-d4	50.00	57.41	115	70 - 120	
Toluene-d8	50.00	50.48	101	85 - 120	
Bromofluorobenzene	50.00	52.52	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW350-3135

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-13R59.d Sampled: 09/07/10 16:10

Initial/Final: 5mL / 5mL Lab ID: 1009071-13 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 16:45

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW350-3135

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-13R59.d Sampled: 09/07/10 16:10

Initial/Final: 5mL / 5mL Lab ID: 1009071-13 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 16:45

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.89	114	85 - 115	
1,2-Dichloroethane-d4	50.00	59.67	119	70 - 120	
Toluene-d8	50.00	49.89	100	85 - 120	
Bromofluorobenzene	50.00	50.61	101	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-1115

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0159.d Sampled: 09/07/10 10:18

Initial/Final: 5mL / 5mL Lab ID: 1009071-01 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 17:28

Batch: 0091325 Sequence: 0113016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.82	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-1115

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0159.d Sampled: 09/07/10 10:18

Initial/Final: 5mL / 5mL Lab ID: 1009071-01 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 17:28

Batch: 0091325 Sequence: 0I13016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	3.3	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.25	106	85 - 115	
1,2-Dichloroethane-d4	50.00	54.62	109	70 - 120	
Toluene-d8	50.00	52.15	104	85 - 120	
Bromofluorobenzene	50.00	52.72	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
002958-75-0	1-Methyldecahydronaphthalene	5.5	181791	16.353	92	JN
91-17-8	Naphthalene, decahydro-	9.4	309576	15.584	93	JN
NA	Unknown 15.850	5.3	176508	15.85	0	J
NA	Unknown 16.096	6.9	229537	16.096	0	J

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0359.d Sampled: 09/07/10 10:38

Initial/Final: 5mL / 5mL Lab ID: 1009071-03 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 18:23

Batch: 0091325 Sequence: 0I13016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5:0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	0.92	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.85	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0359.d Sampled: 09/07/10 10:38

Initial/Final: 5mL / 5mL Lab ID: 1009071-03 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 18:23

Batch: 0091325 Sequence: 0113016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.25	104	85 - 115	
1,2-Dichloroethane-d4	50.00	56.70	113	70 - 120	
Toluene-d8	50.00	50.81	102	85 - 120	
Bromofluorobenzene	50.00	53.50	107	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TWDUP01
SA-TW351-2125

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0459.d Sampled: 09/07/10 12:00

Initial/Final: 5mL / 5mL Lab ID: 1009071-04 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 18:50

Batch: 0091325 Sequence: 0113016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.78	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TWDUP01
SA-TW351-2125

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-0459.d | Sampled: 09/07/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009071-04 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091325-BLK1 | Prepared: 09/13/10 15:57

% Moisture: NA | Analyzed: 09/13/10 18:50

Batch: 0091325 | Sequence: 0113016 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	51.34	103	85 - 115	
1,2-Dichloroethane-d4	50.00	55.98	112	70 - 120	
Toluene-d8	50.00	52.28	105	85 - 120	
Bromofluorobenzene	50.00	53.89	108	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-3135

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0559.d Sampled: 09/07/10 11:05

Initial/Final: 5mL / 5mL Lab ID: 1009071-05 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 19:17

Batch: 0091325 Sequence: 0113016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	6.5	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane	1.1	0.32	0.50	5.0	J
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.70	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-3135

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0559.d Sampled: 09/07/10 11:05

Initial/Final: 5mL / 5mL Lab ID: 1009071-05 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 19:17

Batch: 0091325 Sequence: 0113016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.42	105	85 - 115	
1,2-Dichloroethane-d4	50.00	57.99	116	70 - 120	
Toluene-d8	50.00	53.35	107	85 - 120	
Bromofluorobenzene	50.00	53.66	107	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-4145

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-06R59.d Sampled: 09/07/10 11:53

Initial/Final: 5mL / 5mL Lab ID: 1009071-06 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 14:02

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.64	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW351-4145

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-06R59.d Sampled: 09/07/10 11:53

Initial/Final: 5mL / 5mL Lab ID: 1009071-06 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 14:02

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.5	0.48	0.50	5.0	JB
91-20-3	Naphthalene	3.8	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.97	108	85 - 115	
1,2-Dichloroethane-d4	50.00	52.78	106	70 - 120	
Toluene-d8	50.00	48.62	97	85 - 120	
Bromofluorobenzene	50.00	50.78	102	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW352-1620

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-1569.d | Sampled: 09/08/10 10:09

Initial/Final: 5mL / 5mL | Lab ID: 1009071-15 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091326-BLK1 | Prepared: 09/13/10 16:36

% Moisture: NA | Analyzed: 09/13/10 18:55

Batch: 0091326 | Sequence: 0113017 | Calibration: 0092103 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.65	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW352-1620

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1569.d Sampled: 09/08/10 10:09

Initial/Final: 5mL / 5mL Lab ID: 1009071-15 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 18:55

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	49.77	100	85 - 115	
1,2-Dichloroethane-d4	50.00	48.80	98	70 - 120	
Toluene-d8	50.00	50.31	101	85 - 120	
Bromofluorobenzene	50.00	52.87	106	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW352-2630

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1669.d Sampled: 09/08/10 10:40

Initial/Final: 5mL / 5mL Lab ID: 1009071-16 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 19:23

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.76	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW352-2630

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1669.d Sampled: 09/08/10 10:40

Initial/Final: 5mL / 5mL Lab ID: 1009071-16 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 19:23

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	48.46	97	85 - 115	
1,2-Dichloroethane-d4	50.00	51.64	103	70 - 120	
Toluene-d8	50.00	51.13	102	85 - 120	
Bromofluorobenzene	50.00	51.80	104	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TWDUP02
SA-TW352-2630

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-1769.d | Sampled: 09/08/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009071-17 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091326-BLK1 | Prepared: 09/13/10 16:36

% Moisture: NA | Analyzed: 09/13/10 19:50

Batch: 0091326 | Sequence: 0113017 | Calibration: 0092103 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.81	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TWDUP02
SA-TW352-2630

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-1769.d | Sampled: 09/08/10 12:00

Initial/Final: 5mL / 5mL | Lab ID: 1009071-17 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091326-BLK1 | Prepared: 09/13/10 16:36

% Moisture: NA | Analyzed: 09/13/10 19:50

Batch: 0091326 | Sequence: 0113017 | Calibration: 0092103 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.16	104	85 - 115	
1,2-Dichloroethane-d4	50.00	52.56	105	70 - 120	
Toluene-d8	50.00	50.12	100	85 - 120	
Bromofluorobenzene	50.00	50.92	102	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW352-3640

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1869.d Sampled: 09/08/10 11:05

Initial/Final: 5mL / 5mL Lab ID: 1009071-18 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 20:17

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.4	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.46	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW352-3640

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1869.d Sampled: 09/08/10 11:05

Initial/Final: 5mL / 5mL Lab ID: 1009071-18 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 20:17

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.96	106	85 - 115	
1,2-Dichloroethane-d4	50.00	56.01	112	70 - 120	
Toluene-d8	50.00	50.70	101	85 - 120	
Bromofluorobenzene	50.00	49.54	99	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW353-1620

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-2069.d Sampled: 09/08/10 12:18

Initial/Final: 5mL / 5mL Lab ID: 1009071-20 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 21:12

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.71	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW353-1620

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-2069.d Sampled: 09/08/10 12:18

Initial/Final: 5mL / 5mL Lab ID: 1009071-20 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 21:12

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.98	106	85 - 115	
1,2-Dichloroethane-d4	50.00	54.64	109	70 - 120	
Toluene-d8	50.00	50.07	100	85 - 120	
Bromofluorobenzene	50.00	52.38	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW353-2630

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-2169.d Sampled: 09/08/10 12:40

Initial/Final: 5mL / 5mL Lab ID: 1009071-21 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 21:39

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.57	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW353-2630

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-2169.d Sampled: 09/08/10 12:40

Initial/Final: 5mL / 5mL Lab ID: 1009071-21 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 21:39

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.00	106	85 - 115	
1,2-Dichloroethane-d4	50.00	56.06	112	70 - 120	
Toluene-d8	50.00	49.81	100	85 - 120	
Bromofluorobenzene	50.00	52.42	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW353-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0169.d Sampled: 09/08/10 13:03

Initial/Final: 5mL / 5mL Lab ID: 1009073-01 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 22:07

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	1.5	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.96	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW353-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0169.d Sampled: 09/08/10 13:03

Initial/Final: 5mL / 5mL Lab ID: 1009073-01 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 22:07

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.85	108	85 - 115	
1,2-Dichloroethane-d4	50.00	58.11	116	70 - 120	
Toluene-d8	50.00	50.28	101	85 - 120	
Bromofluorobenzene	50.00	50.89	102	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW354-1620

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0269.d Sampled: 09/08/10 14:35

Initial/Final: 5mL / 5mL Lab ID: 1009073-02 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 22:35

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	5.7	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.0	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW354-1620

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0269.d Sampled: 09/08/10 14:35

Initial/Final: 5mL / 5mL Lab ID: 1009073-02 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 22:35

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	57.23	114	85 - 115	
1,2-Dichloroethane-d4	50.00	58.27	117	70 - 120	
Toluene-d8	50.00	47.92	96	85 - 120	
Bromofluorobenzene	50.00	53.55	107	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW354-2630

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0369.d Sampled: 09/08/10 15:05

Initial/Final: 5mL / 5mL Lab ID: 1009073-03 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 23:02

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.57	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW354-2630

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0369.d Sampled: 09/08/10 15:05

Initial/Final: 5mL / 5mL Lab ID: 1009073-03 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 23:02

Batch: 0091326 Sequence: 0113017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.11	108	85 - 115	
1,2-Dichloroethane-d4	50.00	56.93	114	70 - 120	
Toluene-d8	50.00	50.41	101	85 - 120	
Bromofluorobenzene	50.00	54.17	108	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW354-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0469.d Sampled: 09/08/10 15:25

Initial/Final: 5mL / 5mL Lab ID: 1009073-04 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 17:35

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	2.1	0.27	0.50	5.0	J
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.73	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW354-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0469.d Sampled: 09/08/10 15:25

Initial/Final: 5mL / 5mL Lab ID: 1009073-04 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 17:35

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.3	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.33	101	85 - 115	
1,2-Dichloroethane-d4	50.00	46.70	93	70 - 120	
Toluene-d8	50.00	49.87	100	85 - 120	
Bromofluorobenzene	50.00	45.94	92	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Unknown 6.643	9.7	239651	6.643	0	J
48.4176102	Unknown 6.643 [mean]	9.7	239651	6.643		J

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-TW355-1620

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-19R69.d Sampled: 09/10/10 10:58

Initial/Final: 5mL / 5mL Lab ID: 1009073-19 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 23:33

Batch: 0091431 Sequence: 0114010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.0	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW355-1620

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-19R69.d | Sampled: 09/10/10 10:58

Initial/Final: 5mL / 5mL | Lab ID: 1009073-19 | Received: 09/11/10 10:40

Dilution: 1 | pH: 1 | Assoc Blank: 0091431-BLK1 | Prepared: 09/14/10 16:03

% Moisture: NA | Analyzed: 09/14/10 23:33

Batch: 0091431 | Sequence: 0114010 | Calibration: 0092408 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.36	105	85 - 115	
1,2-Dichloroethane-d4	50.00	50.00	100	70 - 120	
Toluene-d8	50.00	48.66	97	85 - 120	
Bromofluorobenzene	50.00	48.03	96	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW355-2630

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-2059.d Sampled: 09/10/10 11:15

Initial/Final: 5mL / 5mL Lab ID: 1009073-20 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 22:38

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.59	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW355-2630

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-2059.d Sampled: 09/10/10 11:15

Initial/Final: 5mL / 5mL Lab ID: 1009073-20 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 22:38

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.40	113	85 - 115	
1,2-Dichloroethane-d4	50.00	56.31	113	70 - 120	
Toluene-d8	50.00	48.48	97	85 - 120	
Bromofluorobenzene	50.00	52.00	104	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW355-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-2159.d Sampled: 09/10/10 11:38

Initial/Final: 5mL / 5mL Lab ID: 1009073-21 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 23:05

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	5.7	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.74	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW355-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-2159.d Sampled: 09/10/10 11:38

Initial/Final: 5mL / 5mL Lab ID: 1009073-21 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 23:05

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	57.08	114	85 - 115	
1,2-Dichloroethane-d4	50.00	57.39	115	70 - 120	
Toluene-d8	50.00	49.87	100	85 - 120	
Bromofluorobenzene	50.00	52.26	105	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW356-1620

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-05R59.d Sampled: 09/08/10 16:30

Initial/Final: 5mL / 5mL Lab ID: 1009073-05 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 17:39

Batch: 0091426 Sequence: 0114004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.59	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW356-1620

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-05R59.d Sampled: 09/08/10 16:30

Initial/Final: 5mL / 5mL Lab ID: 1009073-05 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 17:39

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.36	111	85 - 115	
1,2-Dichloroethane-d4	50.00	58.16	116	70 - 120	
Toluene-d8	50.00	50.69	101	85 - 120	
Bromofluorobenzene	50.00	51.50	103	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW356-2630

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0669.d Sampled: 09/08/10 17:10

Initial/Final: 5mL / 5mL Lab ID: 1009073-06 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 23:56

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.62	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW356-2630

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0669.d Sampled: 09/08/10 17:10

Initial/Final: 5mL / 5mL Lab ID: 1009073-06 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 23:56

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	54.80	110	85 - 115	
1,2-Dichloroethane-d4	50.00	57.07	114	70 - 120	
Toluene-d8	50.00	49.68	99	85 - 120	
Bromofluorobenzene	50.00	53.67	107	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW356-3640

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-0769.d | Sampled: 09/08/10 17:33

Initial/Final: 5mL / 5mL | Lab ID: 1009073-07 | Received: 09/11/10 10:40

Dilution: 1 | pH: 1 | Assoc Blank: 0091326-BLK1 | Prepared: 09/13/10 16:36

% Moisture: NA | Analyzed: 09/14/10 00:23

Batch: 0091326 | Sequence: 0I13017 | Calibration: 0092103 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	1.6	0.53	2.0	5.0	J
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	33	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.72	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW356-3640

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-0769.d Sampled: 09/08/10 17:33

Initial/Final: 5mL / 5mL Lab ID: 1009073-07 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/14/10 00:23

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	0.84	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	55.93	112	85 - 115	
1,2-Dichloroethane-d4	50.00	59.61	119	70 - 120	
Toluene-d8	50.00	51.07	102	85 - 120	
Bromofluorobenzene	50.00	56.01	112	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW357-1620

Client: TETRA TECH SDG 1009091 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009091-0169.d Sampled: 09/10/10 09:15

Initial/Final: 5mL / 5mL Lab ID: 1009091-01 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 20:20

Batch: 0091431 Sequence: 0114010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	4.1	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.65	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW357-1620

Client: TETRA TECH SDG 1009091 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009091-0169.d Sampled: 09/10/10 09:15

Initial/Final: 5mL / 5mL Lab ID: 1009091-01 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 20:20

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U J
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.52	105	85 - 115	
1,2-Dichloroethane-d4	50.00	49.86	100	70 - 120	
Toluene-d8	50.00	49.29	99	85 - 120	
Bromofluorobenzene	50.00	47.91	96	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

SA-TW357-2630

Client: TETRA TECH SDG 1009091 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009091-0269.d Sampled: 09/10/10 09:43

Initial/Final: 5mL / 5mL Lab ID: 1009091-02 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 19:25

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.69	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW357-2630

Client: TETRA TECH SDG 1009091 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009091-0269.d Sampled: 09/10/10 09:43

Initial/Final: 5mL / 5mL Lab ID: 1009091-02 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 19:25

Batch: 0091431 Sequence: 0114010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	47.81	96	85 - 115	
1,2-Dichloroethane-d4	50.00	46.66	93	70 - 120	
Toluene-d8	50.00	49.17	98	85 - 120	
Bromofluorobenzene	50.00	46.34	93	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TW357-3640

Client: TETRA TECH SDG 1009091 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009091-0369.d Sampled: 09/10/10 10:03

Initial/Final: 5mL / 5mL Lab ID: 1009091-03 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 19:53

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene	3.7	0.53	2.0	5.0	J
67-64-1	Acetone	4.8	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane	38	0.27	0.50	5.0	
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.60	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TW357-3640

Client: TETRA TECH SDG 1009091 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009091-0369.d Sampled: 09/10/10 10:03

Initial/Final: 5mL / 5mL Lab ID: 1009091-03 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 19:53

Batch: 0091431 Sequence: 0114010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene	1.5	0.48	0.50	5.0	J
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	51.22	102	85 - 115	
1,2-Dichloroethane-d4	50.00	50.84	102	70 - 120	
Toluene-d8	50.00	51.28	103	85 - 120	
Bromofluorobenzene	50.00	48.78	98	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RB01-01042010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RB01-01042010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

RB01-01042010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-1259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/14/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RB-20100602

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0959

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.58	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RB-20100602

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0959

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

RB-20100602

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0959

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-RB01-06182010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-07R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	3.0	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.97	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-RB01-06182010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-07R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-RB01-06182010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-07R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-RB-02
-06222010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0859

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.65	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.53	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-RB-02
-06222010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0859

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-RB-02
-06222010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0859

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

ANALYSIS DATA SHEET

SW 8260B

RB-20100629

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-08R69.d | Sampled: 06/29/10 10:18

Initial/Final: 5mL / 5mL | Lab ID: 1007010-08 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070705-BLK1 | Prepared: 07/07/10 12:43

% Moisture: NA | Analyzed: 07/07/10 15:28

Batch: 0070705 | Sequence: 0G07010 | Calibration: 0072001 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane	0.53	0.39	0.50	5.0	JB
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	2.9	1.6	5.0	13	JB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	0.69	0.49	0.50	5.0	J
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	1.0	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

RB-20100629

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-08R69.d Sampled: 06/29/10 10:18

Initial/Final: 5mL / 5mL Lab ID: 1007010-08 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070705-BLK1 Prepared: 07/07/10 12:43

% Moisture: NA Analyzed: 07/07/10 15:28

Batch: 0070705 Sequence: 0G07010 Calibration: 0072001 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	44.90	90	85 - 115	
1,2-Dichloroethane-d4	50.00	51.53	103	70 - 120	
Toluene-d8	50.00	47.19	94	85 - 120	
Bromofluorobenzene	50.00	43.46	87	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
541-05-9	Cyclotrisiloxane, hexamethyl- $$ Dimethy	7.1	300948	12.822	91	JN

ANALYSIS DATA SHEET

SW 8260B

RB01-20100907

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-14R59.d Sampled: 09/07/10 16:35

Initial/Final: 5mL / 5mL Lab ID: 1009071-14 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 17:12

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.78	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

RB01-20100907

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-14R59.d Sampled: 09/07/10 16:35

Initial/Final: 5mL / 5mL Lab ID: 1009071-14 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091426-BLK1 Prepared: 09/14/10 12:32

% Moisture: NA Analyzed: 09/14/10 17:12

Batch: 0091426 Sequence: 0I14004 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	56.25	113	85 - 115	
1,2-Dichloroethane-d4	50.00	58.79	118	70 - 120	
Toluene-d8	50.00	49.24	98	85 - 120	
Bromofluorobenzene	50.00	50.06	100	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB01-01042010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-11R259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	4.5	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	0.86	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	0.40	J
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	1.3	J
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB01-01042010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-11R259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	2.5	J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SB01-01042010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004025

Matrix: (soil/water) WATER Lab Sample ID: 1004025-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004025-11R259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/15/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB-20100603

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-1359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	1.5	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	3.7	J
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	2.0	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB-20100603

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-1359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	8.3	
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.5	
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.4	J
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FB-20100603

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006043

Matrix: (soil/water) WATER Lab Sample ID: 1006043-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006043-1359

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/11/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-FB01-06182010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-06R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	6.1	JB
75-09-2	Methylene Chloride	3.5	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	0.43	J
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.89	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-FB01-06182010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-06R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	3.9	J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-FB01-06182010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-06R59

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

ANALYSIS DATA SHEET

SW 8260B

SB01-20100908

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1969.d Sampled: 09/08/10 11:15

Initial/Final: 5mL / 5mL Lab ID: 1009071-19 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 20:45

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	4.6	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.47	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane	1.7	0.32	0.50	5.0	J
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SB01-20100908

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-1969.d Sampled: 09/08/10 11:15

Initial/Final: 5mL / 5mL Lab ID: 1009071-19 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091326-BLK1 Prepared: 09/13/10 16:36

% Moisture: NA Analyzed: 09/13/10 20:45

Batch: 0091326 Sequence: 0I13017 Calibration: 0092103 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform	2.9	0.95	2.0	5.0	J
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	53.21	106	85 - 115	
1,2-Dichloroethane-d4	50.00	54.24	108	70 - 120	
Toluene-d8	50.00	49.37	99	85 - 120	
Bromofluorobenzene	50.00	52.01	104	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB01-16032010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.32	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB01-16032010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TB01-16032010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-0259

Level: (low/med) LOW Date Received: 04/02/10

% Moisture: not dec. _____ Date Analyzed: 04/06/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB02-16032010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1159

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB02-16032010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-11

Sample wt/vol: 5. (g/ml) ML Lab File ID: 1004020-1159

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TB02-
16032010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1004020

Matrix: (soil/water) WATER Lab Sample ID: 1004020-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1004020-1159

Level: (low/med) LOW Date Received: 04/05/10

% Moisture: not dec. _____ Date Analyzed: 04/07/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-20100601

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0259

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.80	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB-20100601

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0259

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TB-20100601

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006042

Matrix: (soil/water) WATER Lab Sample ID: 1006042-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006042-0259

Level: (low/med) LOW Date Received: 06/05/10

% Moisture: not dec. _____ Date Analyzed: 06/08/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB01-06112010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.70	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	1.1	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB01-06112010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	1.6	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TB01-06112010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006141

Matrix: (soil/water) WATER Lab Sample ID: 1006141-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006141-0259

Level: (low/med) LOW Date Received: 06/19/10

% Moisture: not dec. _____ Date Analyzed: 06/23/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB-02
-06112010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0159

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-38-3	m,p-Xylene (part of total)	10	U
95-47-6	o-Xylene (part of total)	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
75-71-8	Dichlorodifluoromethane	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-15-0	Carbon disulfide	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	13	U
75-09-2	Methylene Chloride	0.76	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
563-58-6	1,1-dichloropropene	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.63	JB
10061-02-6	trans-1,3-Dichloropropene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SA-TB-02
-06112010

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0159

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-hexanone	13	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
91-20-3	Naphthalene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U
79-20-9	Methyl acetate	5.0	U
110-82-7	Cyclohexane	5.0	U
108-87-2	Methylcyclohexane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
SA-TB-02
-06112010

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1006205

Matrix: (soil/water) WATER Lab Sample ID: 1006205-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 1006205-0159

Level: (low/med) LOW Date Received: 06/24/10

% Moisture: not dec. _____ Date Analyzed: 06/30/10

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM I VOA-TIC

ANALYSIS DATA SHEET

SW 8260B

TB-20100628

Client: TETRA TECH | SDG 1007010 | Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1007010-0259.d | Sampled: 06/28/10 08:00

Initial/Final: 5mL / 5mL | Lab ID: 1007010-02 | Received: 07/01/10 09:10

Dilution: 1 | pH: 1 | Assoc Blank: 0070619-BLK1 | Prepared: 07/06/10 11:30

% Moisture: NA | Analyzed: 07/06/10 17:30

Batch: 0070619 | Sequence: 0G06002 | Calibration: 0062901 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride	1.4	0.49	0.50	5.0	JB
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene		0.31	0.50	5.0	U
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

Environmental Testing Laboratories

CompuChem

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ANALYSIS DATA SHEET

SW 8260B

TB-20100628

Client: TETRA TECH SDG 1007010 Project: CTO-160/112G01655/1045370/01-CTO-160(3)

Matrix: Water Preparation: SW 5030A/5030B File ID: 1007010-0259.d Sampled: 06/28/10 08:00

Initial/Final: 5mL / 5mL Lab ID: 1007010-02 Received: 07/01/10 09:10

Dilution: 1 pH: 1 Assoc Blank: 0070619-BLK1 Prepared: 07/06/10 11:30

% Moisture: NA Analyzed: 07/06/10 17:30

Batch: 0070619 Sequence: 0G06002 Calibration: 0062901 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	2.0	1.1	2.0	5.0	JB
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	52.90	106	85 - 115	
1,2-Dichloroethane-d4	50.00	56.07	112	70 - 120	
Toluene-d8	50.00	54.85	110	85 - 120	
Bromofluorobenzene	50.00	58.36	117	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TB-20100907

Client: TETRA TECH SDG 1009071 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009071-0259.d Sampled: 09/07/10 08:00

Initial/Final: 5mL / 5mL Lab ID: 1009071-02 Received: 09/10/10 12:10

Dilution: 1 pH: 1 Assoc Blank: 0091325-BLK1 Prepared: 09/13/10 15:57

% Moisture: NA Analyzed: 09/13/10 17:55

Batch: 0091325 Sequence: 0I13016 Calibration: 0092104 Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone	3.4	1.6	5.0	13	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.81	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TB-20100907

Client: TETRA TECH | SDG 1009071 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009071-0259.d | Sampled: 09/07/10 08:00

Initial/Final: 5mL / 5mL | Lab ID: 1009071-02 | Received: 09/10/10 12:10

Dilution: 1 | pH: 1 | Assoc Blank: 0091325-BLK1 | Prepared: 09/13/10 15:57

% Moisture: NA | Analyzed: 09/13/10 17:55

Batch: 0091325 | Sequence: 0113016 | Calibration: 0092104 | Instrument: 5972hp59

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene		1.1	2.0	5.0	U
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	50.87	102	85 - 115	
1,2-Dichloroethane-d4	50.00	52.81	106	70 - 120	
Toluene-d8	50.00	50.71	101	85 - 120	
Bromofluorobenzene	50.00	53.31	107	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

ANALYSIS DATA SHEET

SW 8260B

SA-TB-20100910

Client: TETRA TECH | SDG 1009073 | Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1009073-1869.d | Sampled: 09/10/10 07:30

Initial/Final: 5mL / 5mL | Lab ID: 1009073-18 | Received: 09/11/10 10:40

Dilution: 1 | pH: 1 | Assoc Blank: 0091431-BLK1 | Prepared: 09/14/10 16:03

% Moisture: NA | Analyzed: 09/14/10 18:58

Batch: 0091431 | Sequence: 0I14010 | Calibration: 0092408 | Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-71-8	Dichlorodifluoromethane		0.32	0.50	5.0	U
74-87-3	Chloromethane		0.39	0.50	5.0	U
75-01-4	Vinyl chloride		0.48	0.50	5.0	U
74-83-9	Bromomethane		0.76	2.0	5.0	U
75-00-3	Chloroethane		0.55	2.0	5.0	U
75-69-4	Trichlorofluoromethane		0.49	0.50	5.0	U
75-35-4	1,1-Dichloroethene		0.53	2.0	5.0	U
67-64-1	Acetone		1.6	5.0	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		0.82	2.0	5.0	U
75-15-0	Carbon disulfide		0.16	0.50	5.0	U
79-20-9	Methyl acetate		0.86	2.0	5.0	U
75-09-2	Methylene chloride		0.49	0.50	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.44	0.50	5.0	U
1634-04-4	Methyl tert-butyl ether		0.22	0.50	5.0	U
75-34-3	1,1-Dichloroethane		0.27	0.50	5.0	U
156-59-2	cis-1,2-Dichloroethene		0.65	2.0	5.0	U
78-93-3	2-Butanone		1.5	5.0	13	U
67-66-3	Chloroform		0.27	0.50	5.0	U
71-55-6	1,1,1-Trichloroethane		0.32	0.50	5.0	U
110-82-7	Cyclohexane		0.45	0.50	5.0	U
563-58-6	1,1-Dichloropropene		0.42	0.50	5.0	U
56-23-5	Carbon tetrachloride		0.31	0.50	5.0	U
107-06-2	1,2-Dichloroethane		0.23	0.50	5.0	U
71-43-2	Benzene		0.28	0.50	5.0	U
79-01-6	Trichloroethene		0.28	0.50	5.0	U
108-87-2	Methylcyclohexane		0.35	0.50	5.0	U
78-87-5	1,2-Dichloropropane		0.86	2.0	5.0	U
75-27-4	Bromodichloromethane		0.36	0.50	5.0	U
10061-01-5	cis-1,3-Dichloropropene		0.52	2.0	5.0	U
108-10-1	4-Methyl-2-pentanone		1.1	1.3	13	U
108-88-3	Toluene	0.62	0.31	0.50	5.0	JB
10061-02-6	trans-1,3-Dichloropropene		0.45	0.50	5.0	U
79-00-5	1,1,2-Trichloroethane		0.51	2.0	5.0	U
127-18-4	Tetrachloroethene		0.42	0.50	5.0	U
591-78-6	2-Hexanone		1.2	1.3	13	U
124-48-1	Dibromochloromethane		0.32	0.50	5.0	U
106-93-4	1,2-Dibromoethane		0.44	0.50	5.0	U
108-90-7	Chlorobenzene		0.27	0.50	5.0	U
100-41-4	Ethylbenzene		0.42	0.50	5.0	U

ANALYSIS DATA SHEET

SW 8260B

SA-TB-20100910

Client: TETRA TECH SDG 1009073 Project: CTO-WE08/112G02045/N62467-04-D-0057

Matrix: Water Preparation: SW 5030A/5030B File ID: 1009073-1869.d Sampled: 09/10/10 07:30

Initial/Final: 5mL / 5mL Lab ID: 1009073-18 Received: 09/11/10 10:40

Dilution: 1 pH: 1 Assoc Blank: 0091431-BLK1 Prepared: 09/14/10 16:03

% Moisture: NA Analyzed: 09/14/10 18:58

Batch: 0091431 Sequence: 0I14010 Calibration: 0092408 Instrument: 5973hp69

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
179601-23-1	m,p-Xylene		0.84	1.0	10	U
95-47-6	o-Xylene		0.25	0.50	5.0	U
100-42-5	Styrene		0.36	0.50	5.0	U
75-25-2	Bromoform		0.95	2.0	5.0	U
98-82-8	Isopropylbenzene		0.27	0.50	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		0.64	2.0	5.0	U
541-73-1	1,3-Dichlorobenzene		0.36	0.50	5.0	U
106-46-7	1,4-Dichlorobenzene		0.30	0.50	5.0	U
95-50-1	1,2-Dichlorobenzene		0.35	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		0.91	2.0	5.0	U
120-82-1	1,2,4-Trichlorobenzene		0.48	0.50	5.0	U
91-20-3	Naphthalene	1.3	1.1	2.0	5.0	J
540-59-0	1,2-Dichloroethene (total)		0.44	0.50	5.0	U
1330-20-7	Xylenes (total)		0.25	0.50	5.0	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.00	49.35	99	85 - 115	
1,2-Dichloroethane-d4	50.00	45.11	90	70 - 120	
Toluene-d8	50.00	48.78	98	85 - 120	
Bromofluorobenzene	50.00	45.23	90	75 - 120	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Tentatively Identified Compounds	0.0				U

APPENDIX K
VALIDATION SUMMARIES

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **March 29, 2010**

FROM: **M. CARSON** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1002039

SAMPLES: 8/Aqueous/VOC

CA-DUP-01	CA-PRSC-01	CA-PRSC-02-01
CA-PRSC-02-02	CA-PRSC-02-03	CA-PRSC-03
CA-PRSC-04	CA-TB01	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1002039 consists of seven (7) aqueous samples and one trip blank. The samples were analyzed for volatile organic compounds (VOC). This SDG contained one field duplicate pair: CA-DUP-01/CA-PRSC-03.

The samples were collected on February 3, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • GC/MS tuning
* • Holding times
* • Initial/Continuing Calibrations
* • Laboratory Method Blank Results
* • Surrogate Recoveries
* • Laboratory Control/Laboratory Control Duplicate Sample Recoveries
* • Matrix Spike/Matrix Spike Duplicate Recoveries
* • Internal Standard Recoveries
* • Field Duplicate Recoveries
* • Compound Quantitation
* • Compound Identification
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

All data was within quality control limits.

Additional Comments

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Megan Carson

Tetra Tech NUS
Megan Carson
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Appendix A

Qualified Analytical Results

PROJ_NO: 01655	NSAMPLE	CA-DUP-01			CA-PRSC-01			CA-PRSC-02-01			CA-PRSC-02-02		
SDG: 1002039	LAB_ID	1002039-07			1002039-01			1002039-04			1002039-05		
FRACTION: OV	SAMP_DATE	2/3/2010			2/3/2010			2/3/2010			2/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	CA-PRSC-03											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		12			2.1	J	P
1,1-DICHLOROETHENE		5	U		5	U		5.4			5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		15	U		15	U		15	U		15	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		14	U		14	U		14	U		14	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		1.2	J	P	5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-DUP-01			CA-PRSC-01			CA-PRSC-02-01			CA-PRSC-02-02		
SDG: 1002039	LAB_ID	1002039-07			1002039-01			1002039-04			1002039-05		
FRACTION: OV	SAMP_DATE	2/3/2010			2/3/2010			2/3/2010			2/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	CA-PRSC-03											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		1.2	J	P	5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-02-03			CA-PRSC-03			CA-PRSC-04			CA-TB01		
SDG: 1002039	LAB_ID	1002039-06			1002039-03			1002039-02			1002039-08		
FRACTION: OV	SAMP_DATE	2/3/2010			2/3/2010			2/3/2010			1/28/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		15	U		15	U		15	U		15	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		14	U		14	U		14	U		14	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-02-03			CA-PRSC-03			CA-PRSC-04			CA-TB01		
SDG: 1002039	LAB_ID	1002039-06			1002039-03			1002039-02			1002039-08		
FRACTION: OV	SAMP_DATE	2/3/2010			2/3/2010			2/3/2010			1/28/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **JUNE 30, 2010**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SDG 1004020

SAMPLES: 18 / Aqueous / VOC

SA-DUP01-20100331	SA-PZ-133I-20100331	SA-PZ-133I1-20100331
SA-PZ-134-20100331	SA-PZ-135-20100331	SA-PZ-136-20100331
SA-PZ-137-20100331	SA-PZ-138-20100401	SA-PZ-139-20100401
SA-TB01-16032010	SA-TB02-16032010	SA-TW-319-3842
SA-TW-319-4549	SA-TW-322-1115	SA-TW-322-2630
SA-TW-322-3842	SA-TW-322-4549	
SA-TW-DUP03-02042010		

Overview

The sample set for NWIRP Calverton, SDG 1004020 consists of eighteen (18) aqueous environmental samples. The aqueous samples were analyzed for volatile organic compounds (VOC). There were two field duplicate pairs associated with this sample data group (SDG); SA-PZ-133I1-20100331 / SA-DUP01-20100331 and SA-TW-322-4549 / SA-TW-DUP03-02042010.

The samples were collected by Tetra Tech on March 16, 31, April 1 and 2, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial/continuing calibrations
*	• GC/MS Tuning
	• Laboratory Method Blank Results
*	• Surrogate Recoveries
	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
*	• Field Duplicate Precision
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Contaminants were detected in laboratory method blanks at the following maximum concentrations:

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Acetone	2.9	29
Methylene chloride	0.68	6.8
Toluene	0.46	2.3

An action level of 10X the maximum contaminant concentration of acetone and methylene chloride; 5X the maximum contaminant concentration of toluene was established to evaluate the samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. The positive methylene chloride and toluene results less than the reporting limit and less than the action level were raised to the reporting limit and qualified as (U). No action was taken on the nondetected results for acetone.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample SA-PZ-139-20100401 had percent recoveries less than the laboratory control limits for chloroethane and 1,1-dichloroethane in both the MS and MSD and a MS recovery greater than the control limit for chloromethane. The positive results for chloroethane and 1,1-dichloroethane have been qualified as estimated (J) for sample SA-PZ-139-20100401. No action was taken on the chloromethane result because the MSD had an acceptable recovery and it was not detected in the sample.

An initial calibration relative response factor (RRF) was less than the 0.05 quality control limit for acetone on instrument "5972HP59L", on 04/13/10. The positive and non-detected results for acetone were rejected (UR), in samples SA-PZ-138-20100401, SA-DUP01-20100331, SA-TW-322-4549, and SA-TW-DUP03-02042010.

Continuing calibration percent differences (%Ds) were greater than the 20% quality control limit for acetone, 2-butanone, 1,1,1-trichloroethane, 1,2-dichloroethane, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-chloropropane, and methyl acetate on instrument "5972HP59", on 04/14/10 at 03:04. The positive and non-detected results reported for the aforementioned compounds, except for acetone, were qualified as estimated (J) and (UJ), respectively, in samples SA-PZ-138-20100401, SA-DUP01-20100331, SA-TW-322-4549, and SA-TW-DUP03-02042010. No action was taken on the acetone results because they were previously qualified due to initial calibration non-compliance.

Continuing calibration percent differences (%Ds) were greater than the 20% quality control limit for trans-1,3-dichloropropene and 1,2,4-trichlorobenzene on instrument "5972HP59", on 04/06/10 at 12:21. The positive and non-detected results reported for the aforementioned compounds, were qualified as estimated (J) and (UJ), respectively, in samples SA-PZ-139-20100401, SA-TB01-16032010, SA-PZ-137-20100331, SA-PZ-133I-20100331, and SA-PZ-133I1-20100331.

Continuing calibration percent differences (%Ds) were greater than the 20% quality control limit for chloroethane and trichlorofluoromethane on instrument "5972HP59", on 04/07/10 at 01:25. The positive and non-detected results reported for the aforementioned compounds, were qualified as estimated (J) and (UJ), respectively, in samples SA-PZ-134-20100331, SA-PZ-135-20100331, SA-PZ-136-20100331, SA-TB02-16032010, SA-TW-319-3842, SA-TW-319-4549, SA-TW-322-1115, SA-TW-322-2630, and SA-TW-322-3842.

Additional Comments

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

In the laboratory control sample VRVLCS, analyzed on 4//14/10, the percent recovery (%R) of 4-methyl-2-pentanone and 2-hexanone were greater than the upper quality control limit. No action was taken on the nondetected 4-methyl-2-pentanone and 2-hexanone results in the affected samples..

Samples SA-PZ-133I-20100331, SA-PZ-135-20100331, and SA-TW-322-3842 were analyzed at dilutions because 1,1,1-trichloroethane and/or 1,1-dichloroethane were greater than the linear calibration range of the instrument. All other results were taken from the undiluted analysis.

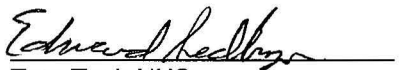
EXECUTIVE SUMMARY

Laboratory Performance Issues: Several compounds were detected in a laboratory method blank. The initial calibration had a low RRF for acetone. The continuing calibrations percent differences were greater than the quality control limit for several analytes.

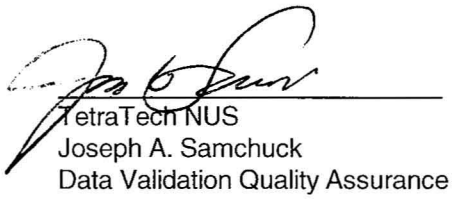
Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.



TetraTech NUS
Edward Sedlmyer
Chemist/Data Validator



TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

JA1

PROJ_NO: 01655	NSAMPLE	SA-DUP01-20100331	SA-PZ-133I1-20100331	SA-PZ-133I-20100331	SA-PZ-133I-20100331-RE
SDG: 1004020	LAB_ID	1004020-10	1004020-04	1004020-05	1004020-05RE1
FRACTION: OV	SAMP_DATE	3/31/2010	3/31/2010	3/31/2010	3/31/2010
MEDIA: WATER	QC_TYPE	NM	NM	NM	NM
	UNITS	UG/L	UG/L	UG/L	UG/L
	PCT_SOLIDS	0.0	0.0	0.0	0.0
	DUP_OF	SA-PZ-133I1-20100331			

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	UJ	C	2	J	P	120					
1,1,2,2-TETRACHLOROETHANE	5	UJ	C	5	U		5	U				
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U				
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U				
1,1-DICHLOROETHANE	23			26						460	Ø	
1,1-DICHLOROETHENE	0.68	J	P	1.6	J	P	41					
1,1-DICHLOROPROPENE	5	U		5	U		5	U				
1,2,4-TRICHLOROBENZENE	0.91	J	P	0.75	J	CP	3	J	CP			
1,2-DIBROMO-3-CHLOROPROPANE	5	UJ	C	5	U		5	U				
1,2-DIBROMOETHANE	5	U		5	U		5	U				
1,2-DICHLOROBENZENE	0.41	J	P	0.36	J	P	0.91	J	P			
1,2-DICHLOROETHANE	5	UJ	C	5	U		5	U				
1,2-DICHLOROPROPANE	5	U		5	U		5	U				
1,3-DICHLOROBENZENE	5	U		5	U		0.65	J	P			
1,4-DICHLOROBENZENE	1.3	J	P	1.2	J	P	2.2	J	P			
2-BUTANONE	13	UJ	C	13	U		13	U				
2-HEXANONE	13	UJ	C	13	U		13	U				
4-METHYL-2-PENTANONE	13	UJ	C	13	U		13	U				
ACETONE	13	UR	C	13	U		13	U				
BENZENE	5	U		5	U		1.1	J	P			
BROMODICHLOROMETHANE	5	U		5	U		5	U				
BROMOFORM	5	U		5	U		5	U				
BROMOMETHANE	5	U		5	U		5	U				
CARBON DISULFIDE	5	U		5	U		5	U				
CARBON TETRACHLORIDE	5	U		5	U		5	U				
CHLOROBENZENE	5	U		5	U		5	U				
CHLORODIBROMOMETHANE	5	U		5	U		5	U				
CHLOROETHANE	5	U		4.9	J	P	67					
CHLOROFORM	5	U		5	U		5	U				
CHLOROMETHANE	5	U		5	U		5	U				
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U				
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U				
CYCLOHEXANE	5	U		5	U		5	U				
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U				
ETHYLBENZENE	5	U		5	U		5	U				
ISOPROPYLBENZENE	5	U		5	U		5	U				

PROJ_NO: 01655	NSAMPLE	SA-PZ-134-20100331			SA-PZ-135-20100331			SA-PZ-135-20100331-RE			SA-PZ-136-20100331		
SDG: 1004020	LAB_ID	1004020-06			1004020-08			1004020-08RE1			1004020-07		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5.3			70						5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U					5	U	
1,1-DICHLOROETHANE		31						260	Ø		1.5	J	P
1,1-DICHLOROETHENE		2.6	J	P	22						5	U	
1,1-DICHLOROPROPENE		5	U		5	U					5	U	
1,2,4-TRICHLOROBENZENE		1.5	J	P	5	U					5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U					5	U	
1,2-DIBROMOETHANE		5	U		5	U					5	U	
1,2-DICHLOROBENZENE		0.43	J	P	0.91	J	P				5	U	
1,2-DICHLOROETHANE		5	U		5	U					5	U	
1,2-DICHLOROPROPANE		5	U		5	U					5	U	
1,3-DICHLOROBENZENE		0.42	J	P	5	U					5	U	
1,4-DICHLOROBENZENE		1.3	J	P	0.38	J	P				5	U	
2-BUTANONE		13	U		13	U					13	U	
2-HEXANONE		13	U		13	U					13	U	
4-METHYL-2-PENTANONE		13	U		13	U					13	U	
ACETONE		13	U		13	U					13	U	
BENZENE		5	U		0.35	J	P				5	U	
BROMODICHLOROMETHANE		5	U		5	U					5	U	
BROMOFORM		5	U		5	U					5	U	
BROMOMETHANE		5	U		5	U					5	U	
CARBON DISULFIDE		5	U		5	U					5	U	
CARBON TETRACHLORIDE		5	U		5	U					5	U	
CHLOROBENZENE		5	U		5	U					5	U	
CHLORODIBROMOMETHANE		5	U		5	U					5	U	
CHLOROETHANE		5	UJ	C	15	J	C				5	UJ	C
CHLOROFORM		5	U		5	U					5	U	
CHLOROMETHANE		5	U		5	U					5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
CYCLOHEXANE		5	U		5	U					5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U					5	U	
ETHYLBENZENE		5	U		5	U					5	U	
ISOPROPYLBENZENE		5	U		5	U					5	U	

J45

PROJ_NO: 01655	NSAMPLE	SA-PZ-137-20100331			SA-PZ-138-20100401			SA-PZ-139-20100401			SA-TB01-16032010		
SDG: 1004020	LAB_ID	1004020-03			1004020-09			1004020-01			1004020-02		
FRACTION: OV	SAMP_DATE	3/31/2010			4/1/2010			4/1/2010			3/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	UJ	C	35			5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	UJ	C	5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		8.7			160			5	U	
1,1-DICHLOROETHENE		5	U		5	U		11			5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	U		0.84	J	CP	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	UJ	C	5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	UJ	C	5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		0.41	J	P	5	U	
2-BUTANONE		13	U		13	UJ	C	13	U		13	U	
2-HEXANONE		13	U		13	UJ	C	13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	UJ	C	13	U		13	U	
ACETONE		13	U		13	UR	C	13	U		13	U	
BENZENE		5	U		5	U		0.35	J	P	5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		22	J	D	5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TB02-16032010			SA-TW-319-3842			SA-TW-319-4549			SA-TW-322-1115		
SDG: 1004020	LAB_ID	1004020-11			1004020-12			1004020-13			1004020-14		
FRACTION: OV	SAMP_DATE	3/16/2010			4/1/2010			4/1/2010			4/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		7.6			5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		22			59			5	U	
1,1-DICHLOROETHENE		5	U		0.89	J	P	2.6	J	P	5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-322-2630			SA-TW-322-3842			SA-TW-322-3842-RE			SA-TW-322-4549		
SDG: 1004020	LAB_ID	1004020-15			1004020-16			1004020-16RE1			1004020-17		
FRACTION: OV	SAMP_DATE	4/2/2010			4/2/2010			4/2/2010			4/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U					320	Ø		14	J	C
1,1,2,2-TETRACHLOROETHANE		5	U		5	U					5	UJ	C
1,1,2-TRICHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U					5	U	
1,1-DICHLOROETHANE		24						1000	Ø		71		
1,1-DICHLOROETHENE		1.6	J	P	90						3.9	J	P
1,1-DICHLOROPROPENE		5	U		5	U					5	U	
1,2,4-TRICHLOROBENZENE		5	U		2.7	J	P				5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U					5	UJ	C
1,2-DIBROMOETHANE		5	U		5	U					5	U	
1,2-DICHLOROBENZENE		5	U		1.9	J	P				5	U	
1,2-DICHLOROETHANE		5	U		5	U					5	UJ	C
1,2-DICHLOROPROPANE		5	U		5	U					5	U	
1,3-DICHLOROBENZENE		5	U		5	U					5	U	
1,4-DICHLOROBENZENE		5	U		1.5	J	P				0.42	J	P
2-BUTANONE		13	U		13	U					13	UJ	C
2-HEXANONE		13	U		13	U					13	UJ	C
4-METHYL-2-PENTANONE		13	U		13	U					13	UJ	C
ACETONE		13	U		13	U					13	UR	C
BENZENE		5	U		2.2	J	P				5	U	
BROMODICHLOROMETHANE		5	U		5	U					5	U	
BROMOFORM		5	U		5	U					5	U	
BROMOMETHANE		5	U		5	U					5	U	
CARBON DISULFIDE		5	U		5	U					5	U	
CARBON TETRACHLORIDE		5	U		5	U					5	U	
CHLOROBENZENE		5	U		5	U					5	U	
CHLORODIBROMOMETHANE		5	U		5	U					5	U	
CHLOROETHANE		5	UJ	C	140	J	C				4.2	J	P
CHLOROFORM		5	U		5	U					5	U	
CHLOROMETHANE		5	U		5	U					5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
CYCLOHEXANE		5	U		5	U					5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U					5	U	
ETHYLBENZENE		5	U		5	U					5	U	
ISOPROPYLBENZENE		5	U		5	U					5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-DUP03-02042010
SDG: 1004020	LAB_ID	1004020-18
FRACTION: OV	SAMP_DATE	4/2/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	SA-TW-322-4549

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	13	J	C
1,1,2,2-TETRACHLOROETHANE	5	UJ	C
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	70		
1,1-DICHLOROETHENE	1.9	J	P
1,1-DICHLOROPROPENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	UJ	C
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	UJ	C
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13	UJ	C
2-HEXANONE	13	UJ	C
4-METHYL-2-PENTANONE	13	UJ	C
ACETONE	13	UR	C
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	

PROJ_NO: 01655	NSAMPLE	SA-DUP01-20100331			SA-PZ-133I1-20100331			SA-PZ-133I-20100331			SA-PZ-133I-20100331-RE		
SDG: 1004020	LAB_ID	1004020-10			1004020-04			1004020-05			1004020-05RE1		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-133I1-20100331											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U				
METHYL ACETATE		5	UJ	C	5	U		5	U				
METHYL CYCLOHEXANE		5	U		5	U		5	U				
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U				
METHYLENE CHLORIDE		5	U		5	U		5	U				
NAPHTHALENE		5	U		5	U		5	U				
O-XYLENE		5	U		5	U		5	U				
STYRENE		5	U		5	U		5	U				
TETRACHLOROETHENE		5	U		5	U		5	U				
TOLUENE		5	U		5	U		5	U				
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U				
TOTAL XYLENES		5	U		5	U		5	U				
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U				
TRANS-1,3-DICHLOROPROPENE		5	U		5	UJ	C	5	UJ	C			
TRICHLOROETHENE		5	U		5	U		0.32	J	P			
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U				
VINYL CHLORIDE		5	U		5	U		5	U				

PROJ_NO: 01655	NSAMPLE	SA-PZ-134-20100331			SA-PZ-135-20100331			SA-PZ-135-20100331-RE			SA-PZ-136-20100331		
SDG: 1004020	LAB_ID	1004020-06			1004020-08			1004020-08RE1			1004020-07		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U					10	U	
METHYL ACETATE		5	U		5	U					5	U	
METHYL CYCLOHEXANE		5	U		5	U					5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U					5	U	
METHYLENE CHLORIDE		5	U	A	5	U					5	U	
NAPHTHALENE		1.5	J	P	5	U					5	U	
O-XYLENE		5	U		5	U					5	U	
STYRENE		5	U		5	U					5	U	
TETRACHLOROETHENE		5	U		5	U					5	U	
TOLUENE		5	U	A	5	U	A				5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U					5	U	
TOTAL XYLENES		5	U		5	U					5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
TRICHLOROETHENE		5	U		5	U					5	U	
TRICHLOROFLUOROMETHANE		5	UJ	C	5	UJ	C				5	UJ	C
VINYL CHLORIDE		5	U		5	U					5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-137-20100331			SA-PZ-138-20100401			SA-PZ-139-20100401			SA-TB01-16032010		
SDG: 1004020	LAB_ID	1004020-03			1004020-09			1004020-01			1004020-02		
FRACTION: OV	SAMP_DATE	3/31/2010			4/1/2010			4/1/2010			3/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	UJ	C	5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U	A	5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U		5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	UJ	C	5	U		5	UJ	C	5	UJ	C
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TB02-16032010			SA-TW-319-3842			SA-TW-319-4549			SA-TW-322-1115		
SDG: 1004020	LAB_ID	1004020-11			1004020-12			1004020-13			1004020-14		
FRACTION: OV	SAMP_DATE	3/16/2010			4/1/2010			4/1/2010			4/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-322-2630			SA-TW-322-3842			SA-TW-322-3842-RE			SA-TW-322-4549		
SDG: 1004020	LAB_ID	1004020-15			1004020-16			1004020-16RE1			1004020-17		
FRACTION: OV	SAMP_DATE	4/2/2010			4/2/2010			4/2/2010			4/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U					10	U	
METHYL ACETATE		5	U		5	U					5	UJ	C
METHYL CYCLOHEXANE		5	U		5	U					5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U					5	U	
METHYLENE CHLORIDE		5	U	A	5	U	A				5	U	
NAPHTHALENE		5	U		5	U					5	U	
O-XYLENE		5	U		5	U					5	U	
STYRENE		5	U		5	U					5	U	
TETRACHLOROETHENE		5	U		5	U					5	U	
TOLUENE		5	U		5	U					5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U					5	U	
TOTAL XYLENES		5	U		5	U					5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
TRICHLOROETHENE		5	U		0.64	J	P				5	U	
TRICHLOROFLUOROMETHANE		5	UJ	C	5	UJ	C				5	U	
VINYL CHLORIDE		5	U		5	U					5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-DUP03-02042010
SDG: 1004020	LAB_ID	1004020-18
FRACTION: OV	SAMP_DATE	4/2/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	SA-TW-322-4549

PARAMETER	RESULT	VQL	QLCD
M+P-XYLENES	10	U	
METHYL ACETATE	5	UJ	C
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
NAPHTHALENE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** JUNE 30, 2010

FROM: EDWARD SEDLMYER **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
NWIRP CALVERTON CTO 160
SDG 1004025

SAMPLES: 19 / Aqueous / VOC

SA-RB01-01042010	SA-SB01-01042010	SA-TW-318-4650
SA-TW-320-1115	SA-TW-320-3034	SA-TW-320-5155
SA-TW-321-1115	SA-TW-321-3034	SA-TW-321-4953
SA-TW-323-1418	SA-TW-323-3034	SA-TW-323-5256
SA-TW-324-1216	SA-TW-324-3034	SA-TW-324-4549
SA-TW-~~325-1822~~ 330-1822	SA-TW-~~325-3034~~	SA-TW-~~325-5054~~
SA-TW-DUP02-01042010	330-3034	330-5054

MC 11-16-10

Overview

The sample set for NWIRP Calverton, SDG 1004025 consists of nineteen (19) aqueous environmental samples. The aqueous samples were analyzed for volatile organic compounds (VOC). There was one field duplicate pair associated with this sample data group (SDG); SA-TW-320-5155 / SA-TW-DUP02-01042010.

The samples were collected by Tetra Tech on March 31 and April 1, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial/continuing calibrations
*	• GC/MS Tuning
	• Laboratory Method Blank Results
*	• Surrogate Recoveries
	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
*	• Field Duplicate Precision
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

A contaminant was detected in laboratory method blank VBLKRV at the following maximum concentration.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Toluene	0.46	2.3

An action level of 5X the maximum contaminant concentration of toluene was established to evaluate the affected samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. The positive toluene result in sample SA-TW-324-1216 was less than the reporting limit and also less than the action level. Therefore, the toluene sample concentration was raised to the reporting limit and qualified as (U). No action was taken on the nondetected results for toluene in the affected samples SA-RB01-01042010, SA-TW-320-1115, SA-TW-320-3034, SA-TW-320-5155, SA-TW-323-1418, SA-TW-324-1216, and SA-TW-325-3034.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample SA-TW-320-3034 had percent recoveries less than the laboratory control limits for 1,1-dichloroethene in both the MS and MSD and a MS recovery greater than the control limit for 2-hexanone. The positive result for 1,1-dichloroethene has been qualified as estimated (J) for sample SA-TW-320-3034. No action was taken on the 2-hexanone result because the MSD had an acceptable recovery and it was not detected in the sample.

An initial calibration relative response factor (RRF) was less than the 0.05 quality control limit for acetone on instrument "5972HP59L", on 04/13/10. The positive and non-detected results for acetone were qualified (J) and (UR), respectively, in samples SA-RB01-01042010, SA-TW-320-1115, SA-TW-320-3034, SA-TW-320-5155, SA-TW-323-1418, SA-TW-324-1216, and SA-TW-325-3034.

Continuing calibration percent differences (%Ds) were greater than the 20% quality control limit for acetone, 2-butanone, 1,1,1-trichloroethane, 1,2-dichloroethane, 4-methyl-2-pentanone, 2-hexanone, 1,1,2,2-tetrachloroethane, 1,2-dibromo-3-chloropropane, and methyl acetate on instrument "5972HP59", on 04/14/10 at 03:04. The positive and non-detected results reported for the aforementioned compounds, except for acetone, were qualified as estimated (J) and (UJ), respectively, in samples SA-RB01-01042010, SA-TW-320-1115, SA-TW-320-3034, SA-TW-320-5155, SA-TW-323-1418, SA-TW-324-1216, SA-TW-DUP02-01042010, and SA-TW-325-3034. No action was taken on the acetone results because they were previously qualified due to initial calibration non-compliance.

Additional Comments

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

In the laboratory control sample VRVLCS, analyzed on 4/14/10, the percent recovery (%R) of 4-methyl-2-pentanone and 2-hexanone were greater than the upper quality control limit. No action was taken on the nondetected 4-methyl-2-pentanone and 2-hexanone results in the affected samples SA-RB01-01042010, SA-TW-320-1115, SA-TW-320-3034, SA-TW-320-5155, SA-TW-323-1418, SA-TW-324-1216, and SA-TW-325-3034.

In the laboratory control sample VRWLCS, analyzed on 4/15/10, the relative percent difference (RPD) of bromomethane was greater than the control limit. No action was taken on the nondetected bromomethane

results in the affected samples RB01-01042010, SA-TW-321-1115, SA-TW-321-3034, SA-TW-321-4953, SA-TW-318-4650, and SA-SB01-01042010.

Sample SA-TW-320-3034 was analyzed at a dilution because 1,1,1-trichloroethane, 1,1-dichloroethane, and chloroethane were greater than the linear calibration range of the instrument. All other results were taken from the undiluted analysis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Toluene was detected in a laboratory method blank. The initial calibration had a low RRF for acetone. The continuing calibration percent difference was greater than the quality control limit for several analytes.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Edward Sedlmyer
TetraTech NUS
Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-RB01-01042010			SA-SB01-01042010			SA-TW-318-4650			SA-TW-320-1115		
SDG: 1004025	LAB_ID	1004025-12			1004025-11			1004025-19			1004025-13		
FRACTION: OV	SAMP_DATE	4/1/2010			4/1/2010			4/1/2010			4/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	UJ	C	5	U		0.32	J	P	5	UJ	C
1,1,2,2-TETRACHLOROETHANE	5	UJ	C	5	U		5	U		5	UJ	C
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		0.95	J	P	5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	UJ	C	5	U		5	U		5	UJ	C
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	UJ	C	5	U		5	U		5	UJ	C
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	UJ	C	13	U		13	U		13	UJ	C
2-HEXANONE	13	UJ	C	13	U		13	U		13	UJ	C
4-METHYL-2-PENTANONE	13	UJ	C	13	U		13	U		13	UJ	C
ACETONE	13	UR	C	4.5	J	P	13	U		13	UR	C
BENZENE	5	U		0.4	J	P	5	U		5	U	
BROMODICHLOROMETHANE	5	U		1.3	J	P	5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		2.5	J	P	5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		0.86	J	P	5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-320-3034			SA-TW-320-3034-RE			SA-TW-320-5155			SA-TW-321-1115		
SDG: 1004025	LAB_ID	1004025-01			1004025-01RE1			1004025-14			1004025-16		
FRACTION: OV	SAMP_DATE	4/1/2010			4/1/2010			4/1/2010			4/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE				440			5	UJ	C	0.51	J	P
1,1,2,2-TETRACHLOROETHANE	5	UJ	C				5	UJ	C	5	U	
1,1,2-TRICHLOROETHANE	5	U					5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U					1.1	J	P	5	U	
1,1-DICHLOROETHANE				1200			3.1	J	P	0.95	J	P
1,1-DICHLOROETHENE	86	J	D				5	U		5	U	
1,1-DICHLOROPROPENE	5	U					5	U		5	U	
1,2,4-TRICHLOROBENZENE	0.69	J	P				5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	UJ	C				5	UJ	C	5	U	
1,2-DIBROMOETHANE	5	U					5	U		5	U	
1,2-DICHLOROBENZENE	2.9	J	P				5	U		5	U	
1,2-DICHLOROETHANE	5	UJ	C				5	UJ	C	5	U	
1,2-DICHLOROPROPANE	5	U					5	U		5	U	
1,3-DICHLOROBENZENE	5	U					5	U		5	U	
1,4-DICHLOROBENZENE	0.68	J	P				5	U		5	U	
2-BUTANONE	13	UJ	C				13	UJ	C	13	U	
2-HEXANONE	13	UJ	C				13	UJ	C	13	U	
4-METHYL-2-PENTANONE	13	UJ	C				13	UJ	C	13	U	
ACETONE	9.3	J	CP				13	UR	C	13	U	
BENZENE	2.2	J	P				5	U		5	U	
BROMODICHLOROMETHANE	5	U					5	U		5	U	
BROMOFORM	5	U					5	U		5	U	
BROMOMETHANE	5	U					5	U		5	U	
CARBON DISULFIDE	5	U					5	U		5	U	
CARBON TETRACHLORIDE	5	U					5	U		5	U	
CHLOROBENZENE	5	U					5	U		5	U	
CHLORODIBROMOMETHANE	5	U					5	U		5	U	
CHLOROETHANE				270			5	U		5	U	
CHLOROFORM	5	U					5	U		5	U	
CHLOROMETHANE	5	U					5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U					5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U					5	U		5	U	
CYCLOHEXANE	5	U					5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U					5	U		5	U	
ETHYLBENZENE	5	U					5	U		5	U	
ISOPROPYLBENZENE	14						5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-321-3034			SA-TW-321-4953			SA-TW-323-1418			SA-TW-323-3034		
SDG: 1004025	LAB_ID	1004025-17			1004025-18			1004025-05			1004025-06		
FRACTION: OV	SAMP_DATE	4/1/2010			4/1/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.45	J	P	0.48	J	P	5	UJ	C	5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	UJ	C	5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		6.9			2.4	J	P	5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	UJ	C	5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	UJ	C	5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	UJ	C	13	U	
2-HEXANONE		13	U		13	U		13	UJ	C	13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	UJ	C	13	U	
ACETONE		13	U		13	U		13	UR	C	13	UR	C
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		0.44	J	P	5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-323-5256			SA-TW-324-1216			SA-TW-324-3034			SA-TW-324-4549		
SDG: 1004025	LAB_ID	1004025-07			1004025-02			1004025-03			1004025-04		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	UJ	C	5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	UJ	C	5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		0.55	J	P
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	UJ	C	5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	UJ	C	5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	UJ	C	13	U		13	U	
2-HEXANONE		13	U		13	UJ	C	13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	UJ	C	13	U		13	U	
ACETONE		13	UR	C	13	UR	C	13	UR	C	13	UR	C
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		0.26	J	P
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

330 MC 11-16-10 330 MC 11-16-10 330 MC 11-16-10

PROJ_NO: 01655	NSAMPLE	SA-TW-325-1822			SA-TW-325-3034			SA-TW-325-5054			SA-TW-DUP02-01042010		
SDG: 1004025	LAB_ID	1004025-08			1004025-09			1004025-10			1004025-15		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			4/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-TW-320-5155		

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	UJ	C	1.4	J	P	5	UJ	C
1,1,2,2-TETRACHLOROETHANE	5	U		5	UJ	C	5	U		5	UJ	C
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		0.94	J	P
1,1-DICHLOROETHANE	5	U		5	U		5	U		3.1	J	P
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	UJ	C	5	U		5	UJ	C
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	UJ	C	5	U		5	UJ	C
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	UJ	C	13	U		13	UJ	C
2-HEXANONE	13	U		13	UJ	C	13	U		13	UJ	C
4-METHYL-2-PENTANONE	13	U		13	UJ	C	13	U		13	UJ	C
ACETONE	13	UR	C	13	UR	C	13	UR	C	13	UR	C
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		0.27	J	P
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-RB01-01042010			SA-SB01-01042010			SA-TW-318-4650			SA-TW-320-1115		
SDG: 1004025	LAB_ID	1004025-12			1004025-11			1004025-19			1004025-13		
FRACTION: OV	SAMP_DATE	4/1/2010			4/1/2010			4/1/2010			4/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	UJ	C	5	U		5	U		5	UJ	C
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-320-3034			SA-TW-320-3034-RE			SA-TW-320-5155			SA-TW-321-1115		
SDG: 1004025	LAB_ID	1004025-01			1004025-01RE1			1004025-14			1004025-16		
FRACTION: OV	SAMP_DATE	4/1/2010			4/1/2010			4/1/2010			4/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U					10	U		10	U	
METHYL ACETATE		5	UJ	C				5	UJ	C	5	U	
METHYL CYCLOHEXANE		5	U					5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U					5	U		5	U	
METHYLENE CHLORIDE		5	U					5	U		5	U	
NAPHTHALENE		5	U					5	U		5	U	
O-XYLENE		5	U					5	U		5	U	
STYRENE		5	U					5	U		5	U	
TETRACHLOROETHENE		5	U					5	U		5	U	
TOLUENE		5	U					5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U					5	U		5	U	
TOTAL XYLENES		5	U					5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U					5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U					5	U		5	U	
TRICHLOROETHENE		0.7	J	P				5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U					5	U		5	U	
VINYL CHLORIDE		5	U					5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-321-3034			SA-TW-321-4953			SA-TW-323-1418			SA-TW-323-3034		
SDG: 1004025	LAB_ID	1004025-17			1004025-18			1004025-05			1004025-06		
FRACTION: OV	SAMP_DATE	4/1/2010			4/1/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	UJ	C	5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-323-5256			SA-TW-324-1216			SA-TW-324-3034			SA-TW-324-4549		
SDG: 1004025	LAB_ID	1004025-07			1004025-02			1004025-03			1004025-04		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			3/31/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	UJ	C	5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U	A	5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

330 330 330

PROJ_NO: 01655	NSAMPLE	SA-TW-325-1822			SA-TW-325-3034			SA-TW-325-5054			SA-TW-DUP02-01042010		
SDG: 1004025	LAB_ID	1004025-08			1004025-09			1004025-10			1004025-15		
FRACTION: OV	SAMP_DATE	3/31/2010			3/31/2010			3/31/2010			4/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-TW-320-5155		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	UJ	C	5	U		5	UJ	C
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **AUGUST 30, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1006042

SAMPLES: 20/Aqueous/VOC

DUP-01-20100602	RB-20100602	SA-TW-331-1115
SA-TW-331-2125	SA-TW-331-3135	SA-TW-332-1115
SA-TW-332-2125	SA-TW-332-3135	SA-TW-333-1115
SA-TW-333-2125	SA-TW-333-3135	SA-TW-334-1115
SA-TW-334-2125	SA-TW-335-1115	SA-TW-335-2125
SA-TW-335-3135	SA-TW-336-1115	SA-TW-336-2125
SA-TW-336-3135	TB-20100601	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1006042 consists of eighteen (18) environmental aqueous samples, a trip blank and a rinsate blank. The samples were analyzed for select volatile organic compounds (VOC). The field duplicate pair within this SDG is SA-TW-331-2125/ DUP-01-20100602.

The samples were collected on June 1, 2, and 3, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
* • Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Several contaminants were detected in the laboratory method blanks at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Toluene [1,2,3]	2.0 [3]	10.0
Naphthalene [1,2]	2.0 [1]	10.0
Methylene chloride [2,3]	1.5 [3]	15.0
2-hexanone [2]	1.4	7.0
1,4-dichlorobenzene [2]	0.31	1.55
1,2,4-trichlorobenzene [2]	0.62	3.1
Acetone [3]	2.5	25.0

(1) Laboratory method blank VBLKGK analyzed on June 8, 2010 affecting samples SA-TW-331-3135, SA-TW-333-1115, SA-TW-333-2125, SA-TW-332-2125, SA-TW-332-3135 and SA-TW-336-1115.
(2) Laboratory method blank VBLKGP analyzed on June 11, 2010 affecting samples SA-TW-331-1115, SA-TW-331-2125, SA-TW-335-1115, SA-TW-336-2125, SA-TW-334-1115, SA-TW-334-2125, DUP-01-20100602, SA-TW-333-3135, SA-TW-335-2125, SA-TW-335-3135 and SA-TW-336-3135.
(3) Laboratory method blank VBLKGS analyzed on June 11, 2010 affecting sample SA-TW-332-1115.

An action level of 5X the maximum contaminant concentration of toluene, naphthalene, 2-hexanone and 1,4-dichlorobenzene was established to evaluate the samples for laboratory method blank contamination. An action level of 10X the maximum concentration of acetone and methylene chloride, common laboratory contaminants, was established to evaluate the affected samples for laboratory blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on the positive 1,4-dichlorobenzene results in samples SA-TW-336-2125 and SA-TW-336-3135 that were greater than the action level. No action was taken on nondetected results or field quality control samples.

Additional Comments

The following samples were diluted and have elevated reporting limits for nondetected results.

Sample	Dilution Factor
SA-TW-333-3135	5X
SA-TW-335-2125	2X
SA-TW-335-3135	14X
SA-TW-336-3135	2X

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

TO: R. Sok
FROM: A. Cognetti
DATE: August 30, 2010
SDG: 1006042
PAGE: 3

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blanks resulting in the qualification of data.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	DUP-01-20100602			RB-20100602			SA-TW-331-1115			SA-TW-331-2125		
SDG: 1006042	LAB_ID	1006042-20			1006042-09			1006042-10			1006042-11		
FRACTION: OV	SAMP_DATE	6/2/2010			6/2/2010			6/2/2010			6/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-331-2125											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U	A	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U	A	13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		2.6	J	P	13	U		2.8	J	P	2.8	J	P
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		0.32	J	P	5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-331-3135			SA-TW-332-1115			SA-TW-332-2125			SA-TW-332-3135		
SDG: 1006042	LAB_ID	1006042-01			1006042-06			1006042-07			1006042-08		
FRACTION: OV	SAMP_DATE	6/2/2010			6/1/2010			6/1/2010			6/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		9.9		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		32		
1,1-DICHLOROETHENE		5	U		5	U		5	U		1	J	P
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		1.5	J	P
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		11		
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-333-1115			SA-TW-333-2125			SA-TW-333-3135			SA-TW-334-1115		
SDG: 1006042	LAB_ID	1006042-03			1006042-04			1006042-05			1006042-18		
FRACTION: OV	SAMP_DATE	6/1/2010			6/1/2010			6/1/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		0.39	J	P	250			5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		25	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		25	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		25	U		5	U	
1,1-DICHLOROETHANE		5	U		3.1	J	P	740			5	U	
1,1-DICHLOROETHENE		5	U		5	U		43			5	U	
1,1-DICHLOROPROPENE		5	U		5	U		25	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		25	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		25	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		25	U		5	U	
1,2-DICHLOROBENZENE		5	U		0.88	J	P	3.4	J	P	5	U	
1,2-DICHLOROETHANE		5	U		5	U		25	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		25	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		25	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		25	U		5	U	
2-BUTANONE		13	U		13	U		63	U		13	U	
2-HEXANONE		13	U		13	U		63	U	A	13	U	
4-METHYL-2-PENTANONE		13	U		13	U		63	U		13	U	
ACETONE		13	U		13	U		13	J	P	2.1	J	P
BENZENE		5	U		5	U		2.2	J	P	5	U	
BROMODICHLOROMETHANE		5	U		5	U		25	U		5	U	
BROMOFORM		5	U		5	U		25	U		5	U	
BROMOMETHANE		5	U		5	U		25	U		5	U	
CARBON DISULFIDE		5	U		5	U		25	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		25	U		5	U	
CHLOROBENZENE		5	U		5	U		25	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		25	U		5	U	
CHLOROETHANE		5	U		1.6	J	P	240			5	U	
CHLOROFORM		5	U		5	U		25	U		5	U	
CHLOROMETHANE		5	U		5	U		25	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		25	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		25	U		5	U	
CYCLOHEXANE		5	U		5	U		25	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		25	U		5	U	
ETHYLBENZENE		5	U		5	U		25	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-334-2125			SA-TW-335-1115			SA-TW-335-2125			SA-TW-335-3135		
SDG: 1006042	LAB_ID	1006042-19			1006042-12			1006042-13			1006042-14		
FRACTION: OV	SAMP_DATE	6/3/2010			6/2/2010			6/2/2010			6/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		70			570		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		10	U		71	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		10	U		71	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		10	U		71	U	
1,1-DICHLOROETHANE		5	U		5	U		280			2100		
1,1-DICHLOROETHENE		5	U		5	U		16			110		
1,1-DICHLOROPROPENE		5	U		5	U		10	U		71	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		10	U		71	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		10	U		71	U	
1,2-DIBROMOETHANE		5	U		5	U		10	U		71	U	
1,2-DICHLOROBENZENE		5	U		5	U		1.8	J	P	71	U	
1,2-DICHLOROETHANE		5	U		5	U		10	U		71	U	
1,2-DICHLOROPROPANE		5	U		5	U		10	U		71	U	
1,3-DICHLOROBENZENE		5	U		5	U		10	U		71	U	
1,4-DICHLOROBENZENE		5	U		5	U		10	U		71	U	
2-BUTANONE		13	U		13	U		25	U		180	U	
2-HEXANONE		13	U		13	U		25	U		180	U	
4-METHYL-2-PENTANONE		13	U		13	U		25	U		180	U	
ACETONE		1.9	J	P	2.2	J	P	5.1	J	P	24	J	P
BENZENE		5	U		5	U		1.3	J	P	7.2	J	P
BROMODICHLOROMETHANE		5	U		5	U		10	U		71	U	
BROMOFORM		5	U		5	U		10	U		71	U	
BROMOMETHANE		5	U		5	U		10	U		71	U	
CARBON DISULFIDE		5	U		5	U		10	U		71	U	
CARBON TETRACHLORIDE		5	U		5	U		10	U		71	U	
CHLOROBENZENE		5	U		5	U		10	U		71	U	
CHLORODIBROMOMETHANE		5	U		5	U		10	U		71	U	
CHLOROETHANE		5	U		5	U		76			470		
CHLOROFORM		5	U		5	U		10	U		71	U	
CHLOROMETHANE		5	U		5	U		10	U		71	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		10	U		71	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		10	U		71	U	
CYCLOHEXANE		5	U		5	U		10	U		71	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		10	U		71	U	
ETHYLBENZENE		5	U		5	U		10	U		71	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-336-1115			SA-TW-336-2125			SA-TW-336-3135			TB-20100601		
SDG: 1006042	LAB_ID	1006042-15			1006042-16			1006042-17			1006042-02		
FRACTION: OV	SAMP_DATE	6/2/2010			6/2/2010			6/2/2010			5/26/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		55			5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		10	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		10	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		10	U		5	U	
1,1-DICHLOROETHANE		1.2	J	P	5	U		240			5	U	
1,1-DICHLOROETHENE		5	U		5	U		15			5	U	
1,1-DICHLOROPROPENE		5	U		5	U		10	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		10	U	A	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		10	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		10	U		5	U	
1,2-DICHLOROBENZENE		5	U		0.71	J	P	1.9	J	P	5	U	
1,2-DICHLOROETHANE		5	U		5	U		10	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		10	U		5	U	
1,3-DICHLOROBENZENE		5	U		0.51	J	P	1.5	J	P	5	U	
1,4-DICHLOROBENZENE		5	U		2.2	J	P	6.4	J	P	5	U	
2-BUTANONE		13	U		13	U		25	U		13	U	
2-HEXANONE		13	U		13	U		25	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		25	U		13	U	
ACETONE		13	U		2.6	J	P	4.9	J	P	13	U	
BENZENE		5	U		5	U		1	J	P	5	U	
BROMODICHLOROMETHANE		5	U		5	U		10	U		5	U	
BROMOFORM		5	U		5	U		10	U		5	U	
BROMOMETHANE		5	U		5	U		10	U		5	U	
CARBON DISULFIDE		5	U		5	U		10	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		10	U		5	U	
CHLOROBENZENE		5	U		0.42	J	P	0.8	J	P	5	U	
CHLORODIBROMOMETHANE		5	U		5	U		10	U		5	U	
CHLOROETHANE		5	U		5	U		110			5	U	
CHLOROFORM		5	U		5	U		10	U		5	U	
CHLOROMETHANE		5	U		5	U		10	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		10	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		10	U		5	U	
CYCLOHEXANE		5	U		5	U		10	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		10	U		5	U	
ETHYLBENZENE		5	U		5	U		10	U		5	U	

PROJ_NO: 01655	NSAMPLE	DUP-01-20100602			RB-20100602			SA-TW-331-1115			SA-TW-331-2125		
SDG: 1006042	LAB_ID	1006042-20			1006042-09			1006042-10			1006042-11		
FRACTION: OV	SAMP_DATE	6/2/2010			6/2/2010			6/2/2010			6/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-331-2125											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	A	5	U		5	U	A	5	U	A
NAPHTHALENE		5	U		5	U		5	U	A	5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		190			5	U		5	U		190		
TOLUENE		5	U	A	0.58	J	P	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-331-3135			SA-TW-332-1115			SA-TW-332-2125			SA-TW-332-3135		
SDG: 1006042	LAB_ID	1006042-01			1006042-06			1006042-07			1006042-08		
FRACTION: OV	SAMP_DATE	6/2/2010			6/1/2010			6/1/2010			6/1/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U	A	5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-333-1115			SA-TW-333-2125			SA-TW-333-3135			SA-TW-334-1115		
SDG: 1006042	LAB_ID	1006042-03			1006042-04			1006042-05			1006042-18		
FRACTION: OV	SAMP_DATE	6/1/2010			6/1/2010			6/1/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		1.7	J	P	8.3	J	P	5	U	
M+P-XYLENES		10	U		10	U		50	U		10	U	
METHYL ACETATE		5	U		5	U		25	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		25	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		25	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		25	U	A	5	U	A
NAPHTHALENE		5	U		5	U		25	U	A	5	U	
O-XYLENE		5	U		5	U		25	U		5	U	
STYRENE		5	U		5	U		25	U		5	U	
TETRACHLOROETHENE		5	U		5	U		25	U		5	U	
TOLUENE		5	U	A	5	U	A	25	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		25	U		5	U	
TOTAL XYLENES		5	U		5	U		25	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		25	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		25	U		5	U	
TRICHLOROETHENE		5	U		5	U		25	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		25	U		5	U	
VINYL CHLORIDE		5	U		5	U		25	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-334-2125			SA-TW-335-1115			SA-TW-335-2125			SA-TW-335-3135		
SDG: 1006042	LAB_ID	1006042-19			1006042-12			1006042-13			1006042-14		
FRACTION: OV	SAMP_DATE	6/3/2010			6/2/2010			6/2/2010			6/2/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5.2	J	P	23	J	P
M+P-XYLENES		10	U		10	U		20	U		140	U	
METHYL ACETATE		5	U		5	U		10	U		71	U	
METHYL CYCLOHEXANE		5	U		5	U		10	U		71	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		10	U		71	U	
METHYLENE CHLORIDE		5	U	A	5	U	A	10	U	A	71	U	A
NAPHTHALENE		5	U		5	U		10	U		71	U	A
O-XYLENE		5	U		5	U		10	U		71	U	
STYRENE		5	U		5	U		10	U		71	U	
TETRACHLOROETHENE		5	U		5	U		10	U		71	U	
TOLUENE		5	U	A	5	U	A	10	U	A	71	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		10	U		71	U	
TOTAL XYLENES		5	U		5	U		10	U		71	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		10	U		71	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		10	U		71	U	
TRICHLOROETHENE		5	U		5	U		10	U		71	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		10	U		71	U	
VINYL CHLORIDE		5	U		5	U		1.3	J	P	8.1	J	P

PROJ_NO: 01655	NSAMPLE	SA-TW-336-1115			SA-TW-336-2125			SA-TW-336-3135			TB-20100601		
SDG: 1006042	LAB_ID	1006042-15			1006042-16			1006042-17			1006042-02		
FRACTION: OV	SAMP_DATE	6/2/2010			6/2/2010			6/2/2010			5/26/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		11			5	U	
M+P-XYLENES		10	U		10	U		20	U		10	U	
METHYL ACETATE		5	U		5	U		10	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		10	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		10	U		5	U	
METHYLENE CHLORIDE		5	U		5	U	A	10	U	A	5	U	
NAPHTHALENE		5	U		5	U		10	U	A	5	U	
O-XYLENE		5	U		5	U		10	U		5	U	
STYRENE		5	U		5	U		10	U		5	U	
TETRACHLOROETHENE		5	U		5	U		10	U		5	U	
TOLUENE		5	U	A	5	U	A	10	U	A	0.8	J	P
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		10	U		5	U	
TOTAL XYLENES		5	U		5	U		10	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		10	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		10	U		5	U	
TRICHLOROETHENE		5	U		5	U		10	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		10	U		5	U	
VINYL CHLORIDE		5	U		5	U		1.3	J	P	5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **AUGUST 27, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1006043

SAMPLES: 13/Aqueous/VOC

DUP-02-20100603	DUP-03-20100603	FB-20100603
SA-TW-334-3135	SA-TW-337-1115	SA-TW-337-2125
SA-TW-337-3135	SA-TW-338-1115	SA-TW-338-2125
SA-TW-338-3135	SA-TW-339-1115	SA-TW-339-2125
SA-TW-339-3135		

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1006043 consists of twelve (12) environmental aqueous samples and a field blank. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pairs contained within this SDG are SA-TW-334-2125/ DUP-02-20100603 and SA-TW-338-2125/ DUP-03-20100603. Sample SA-TW-334-2125 is contained in SDG 1006042.

The samples were collected on June 3, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial/continuing calibrations
	• Laboratory Method Blank Results
*	• Surrogate Recoveries
	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
*	• Field Duplicate Precision
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Several contaminants were detected in the laboratory method blanks and field blank at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Acetone [1]	2.5	25.0
Toluene [1,2,3,4]	2.2 [3]	11.0
Methylene chloride [1]	1.5	15
Chloroform [4]	1.5	7.5
Dibromochloromethane [4]	8.3	41.5
Bromoform [4]	5.5	27.5
Naphthalene [4]	1.4	7.0

(1) Laboratory method blank VBLKGS analyzed on June 11, 2010 affecting samples SA-TW-339-1115, SA-TW-339-3135, SA-TW-338-1115, SA-TW-338-2125, SA-TW-338-3135DIL, SA-TW-339-2125 and SA-TW-337-2125.
(2) Laboratory method blank VBLKGU analyzed on June 11, 2010 affecting samples DUP-03-20100603, SA-TW-337-1115 and SA-TW-337-3135.
(3) Laboratory method blank VBLKGJ analyzed on June 11, 2010 affecting samples SA-TW-338-3135, SA-TW-334-3135 and DUP-02-20100603.
(4) Field blank FB-20100603 affecting all of the samples contained within this SDG.

An action level of 5X the maximum contaminant concentration of toluene was established to evaluate the samples for laboratory method blank contamination. An action level of 10X the maximum concentration of acetone and methylene chloride, common laboratory contaminants, was established to evaluate the affected samples for laboratory blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on nondetected results or field quality control samples.

The continuing calibration of instrument 5972HP59 on June 11, 2010 @ 12:42 had a percent difference (%D) of bromomethane greater than the 25% quality control limit. The positive and nondetected bromomethane results in the affected samples DUP-03-20100603, SA-TW-337-1115 and SA-TW-337-3135 were qualified as estimated (J) and (UJ), respectively.

Additional Comments

Sample SA-TW-338-3135 was diluted 5X in order to obtain concentrations of 1,1-dichloroethane and chloroethane within the instrument calibration range.

The matrix spike duplicate (MSD) %R of 1,1-dichloroethane in sample SA-TW-338-3135 was less than the lower quality control limit. The matrix spike (MS) percent recovery (%R) and relative percent difference (RPD) for 1,1-dichloroethane was within quality control limits. Sample concentration of 1,1-dichloroethane was greater than 10X the spike added concentration. No action was taken on the 1,1-dichloroethane results in sample SA-TW-338-3135.

Field duplicate imprecision was noted in the field duplicate pair SA-TW-334-2125 and DUP-02-20100603 for acetone. No action was taken on the acetone results in the field duplicate pair SA-TW-334-2125 and DUP-02-20100603 because the variance was less than 2X the reporting limit.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blanks and field blank resulting in the qualification of data. The continuing calibration %D of bromomethane exceeded quality control limits resulting in the qualification of data.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

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Attachments:
1. Appendix A - Qualified Analytical Results
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Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	DUP-02-20100603			DUP-03-20100603			FB-20100603			SA-TW-334-3135		
SDG: 1006043	LAB_ID	1006043-03			1006043-09			1006043-13			1006043-02		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-334-2125			SA-TW-338-2125								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		0.84	J	P
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		3.7	J	P	5	U	
BROMOFORM		5	U		5	U		5.5			5	U	
BROMOMETHANE		5	U		5	UJ	C	5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		8.3			5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		1.5	J	P	5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-337-1115			SA-TW-337-2125			SA-TW-337-3135			SA-TW-338-1115		
SDG: 1006043	LAB_ID	1006043-10			1006043-11			1006043-12			1006043-07		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	1.4	J	P	5	U		1.2	J	P	5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		0.33	J	P
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	U		13	U	A	13	U		13	U	A
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	UJ	C	5	U		5	UJ	C	5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-338-2125			SA-TW-338-3135			SA-TW-338-3135-A			SA-TW-338-3135-RE		
SDG: 1006043	LAB_ID	1006043-08			1006043-01			1006043-01			1006043-01RE1		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		130								
1,1,2,2-TETRACHLOROETHANE		5	U		5	U							
1,1,2-TRICHLOROETHANE		5	U		5	U							
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U							
1,1-DICHLOROETHANE		5	U								950		
1,1-DICHLOROETHENE		5	U		37								
1,1-DICHLOROPROPENE		5	U		5	U							
1,2,4-TRICHLOROBENZENE		5	U		5	U							
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U							
1,2-DIBROMOETHANE		5	U		5	U							
1,2-DICHLOROBENZENE		5	U		1.8	J	P						
1,2-DICHLOROETHANE		5	U		5	U							
1,2-DICHLOROPROPANE		5	U		5	U							
1,3-DICHLOROBENZENE		5	U		5	U							
1,4-DICHLOROBENZENE		5	U		1.9	J	P						
2-BUTANONE		13	U		13	U							
2-HEXANONE		13	U		13	U							
4-METHYL-2-PENTANONE		13	U		13	U							
ACETONE		13	U	A	13	U							
BENZENE		5	U		2.6	J	P						
BROMODICHLOROMETHANE		5	U		5	U							
BROMOFORM		5	U		5	U							
BROMOMETHANE		5	U		5	U							
CARBON DISULFIDE		5	U		5	U							
CARBON TETRACHLORIDE		5	U		5	U							
CHLOROBENZENE		5	U		5	U							
CHLORODIBROMOMETHANE		5	U		5	U							
CHLOROETHANE		5	U								240		
CHLOROFORM		5	U		5	U							
CHLOROMETHANE		5	U		5	U							
CIS-1,2-DICHLOROETHENE		5	U		5	U							
CIS-1,3-DICHLOROPROPENE		5	U		5	U							
CYCLOHEXANE		5	U		0.98	J	P						
DICHLORODIFLUOROMETHANE		5	U		5	U							
ETHYLBENZENE		5	U		5	U							

PROJ_NO: 01655	NSAMPLE	SA-TW-339-1115	SA-TW-339-2125	SA-TW-339-3135
SDG: 1006043	LAB_ID	1006043-04	1006043-05	1006043-06
FRACTION: OV	SAMP_DATE	6/3/2010	6/3/2010	6/3/2010
MEDIA: WATER	QC_TYPE	NM	NM	NM
	UNITS	UG/L	UG/L	UG/L
	PCT_SOLIDS	0.0	0.0	0.0
	DUP_OF			

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U	
ACETONE	13	U	A	13	U	A	13	U	A
BENZENE	5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U	
CARBON DISULFIDE	0.21	J	P	5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	DUP-02-20100603			DUP-03-20100603			FB-20100603			SA-TW-334-3135		
SDG: 1006043	LAB_ID	1006043-03			1006043-09			1006043-13			1006043-02		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-334-2125			SA-TW-338-2125								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U	B	1.4	J	P	5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	2	J	P	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-337-1115			SA-TW-337-2125			SA-TW-337-3135			SA-TW-338-1115		
SDG: 1006043	LAB_ID	1006043-10			1006043-11			1006043-12			1006043-07		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U	A	5	U		5	U	A
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-338-2125			SA-TW-338-3135			SA-TW-338-3135-A			SA-TW-338-3135-RE		
SDG: 1006043	LAB_ID	1006043-08			1006043-01			1006043-01			1006043-01RE1		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		4.5	J	P						
M+P-XYLENES		10	U					10	U				
METHYL ACETATE		5	U		5	U							
METHYL CYCLOHEXANE		5	U		5	U							
METHYL TERT-BUTYL ETHER		5	U		5	U							
METHYLENE CHLORIDE		5	U	A	5	U							
NAPHTHALENE		5	U		5	U	B						
O-XYLENE		5	U					5	U				
STYRENE		5	U		5	U							
TETRACHLOROETHENE		5	U		5	U							
TOLUENE		5	U	A	5	U	A						
TOTAL 1,2-DICHLOROETHENE		5	U		5	U							
TOTAL XYLENES		5	U		5	U							
TRANS-1,2-DICHLOROETHENE		5	U		5	U							
TRANS-1,3-DICHLOROPROPENE		5	U		5	U							
TRICHLOROETHENE		5	U		0.34	J	P						
TRICHLOROFLUOROMETHANE		5	U		5	U							
VINYL CHLORIDE		5	U		5	U							

PROJ_NO: 01655	NSAMPLE	SA-TW-339-1115			SA-TW-339-2125			SA-TW-339-3135		
SDG: 1006043	LAB_ID	1006043-04			1006043-05			1006043-06		
FRACTION: OV	SAMP_DATE	6/3/2010			6/3/2010			6/3/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	A	5	U		5	U	A
NAPHTHALENE		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **JULY 1, 2010**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SDG 1004056

SAMPLES: 8 / Aqueous / VOC

CA-PRSC-01-20100407	CA-PRSC-02-01-20100407	CA-PRSC-02-02-20100407
CA-PRSC-02-03-20100407	CA-PRSC-03-20100407	CA-PRSC-04-20100407
CA-PRSC-DUP01-20100407	CA-TB01-20100407	

Overview

The sample set for NWIRP Calverton, SDG 1004056 consists of eight (8) aqueous environmental samples including one (1) trip blank and one (1) field duplicate pair sample. The aqueous samples were analyzed for volatile organic compounds (VOC). The one (1) field duplicate sample pair associated with this sample data group (SDG) was: CA-PRSC-DUP01-20100407 / CA-PRSC-03-20100407.

The samples were collected by Tetra Tech on April 7, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Hold times
*	• GC/MS System Tuning and Performance
	• Initial/continuing calibrations
	• Laboratory Control Sample Recoveries
	• Laboratory Method Blank Results
	• Surrogate Spike Recoveries
*	• Internal Standard Recoveries
	• Matrix Spike/Matrix Spike Duplicate Recoveries
*	• Compound Identification
*	• Compound Quantitation
*	• Field Duplicate Precision
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The hold time of 14 days was exceeded (but <2X the hold time) for samples CA-PRSC-DUP01-20100407, CA-PRSC-04-20100407, CA-PRSC-02-02-20100407, and CA-PRSC-02-03-20100407 as well as re-analysis samples CA-PRSC-02-02-20100407RE and CA-PRSC-02-03-20100407RE as listed below.

Sample	Sample date/time	Analysis date/time	Days to analysis
CA-PRSC-DUP01-20100407	04/07/10 07:43	04/21/10 21:11	14d 13h 28m
CA-PRSC-04-20100407	04/07/10 08:40	04/21/10 21:39	14d 12h 59m
CA-PRSC-02-02-20100407	04/07/10 08:20	04/21/10 22:06	14d 13h 46m
CA-PRSC-02-03-20100407	04/07/10 08:25	04/21/10 22:34	14d 14h 09m
CA-PRSC-02-02-20100407RE	04/07/10 08:20	04/22/10 00:03	14d 15h 43m
CA-PRSC-02-03-20100407RE	04/07/10 08:25	04/22/10 00:30	14d 16h 05m

Because the analyses were performed beyond 14 days and twelve hours, the holding times were considered exceeded. Positive results were qualified as estimated, (J) and non-detects were rejected, (UR).

The following analytes were detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Toluene [1]	0.36	1.8
Acetone [2]	2.2	22.0
Naphthalene [2]	1.3	6.5
1,2,4-Trichlorobenzene [2]	0.51	2.55
Chloromethane [3]	0.44	2.20
Methylene Chloride [3]	0.86	8.60
Naphthalene [3]	1.9	9.5

[1] Method blank VBLKJF affecting samples CA-PRSC-01-20100407 and CA-PRSC-03-20100407.

[2] Method blank VBLKJP affecting samples CA-PRSC-02-02-20100407, CA-PRSC-02-03-20100407, CA-PRSC-04-20100407, CA-PRSC-DUP01-20100407, CA-PRSC-02-02-20100407RE, and CA-PRSC-02-03-20100407RE.

[3] Method blank VBLKRY affecting samples CA-TB01-20100407 and CA-PRSC-02-01-20100407. The trip blank sample was not qualified due to method blank contamination.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant compounds acetone and methylene chloride, and 5X for other contaminant compounds was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the contract required quantitation limit (CRQL).

Additional Comments

Form 1s provided by the laboratory abbreviated the sample numbers for most samples. No action was taken because the database contained the complete sample IDs.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The continuing calibration verification percent difference (%D) exceeded the 20% quality control limit for 2-butanone, 2-hexanone, naphthalene, and 1,2-dibromo-3-chloropropane for instrument 5972HP59 on 04/21/10 @ 19:12 affecting samples CA-PRSC-DUP01-20100407, CA-PRSC-04-20100407, CA-PRSC-02-02-20100407RE, and CA-PRSC-02-03-20100407RE. All sample results were non-detected for 2-butanone, 2-hexanone, naphthalene, and 1,2-dibromo-3-chloropropane and were not qualified as these samples were previously rejected due to a hold time quality control exceedance.

The surrogate percent recoveries (%R) were greater than the quality control limit for 1,2-dichloroethane-d4 for the initial analysis of samples CA-PRSC-02-02-20100407 and CA-PRSC-02-03-20100407. The samples were re-analyzed and the %R of the surrogate was within the quality control limits for both samples. As both the initial analysis and the re-analysis of the samples exceeded the hold time to analysis, the re-analysis samples results were reported.

The laboratory control sample (LCS) VJFLCS %R for chloroethane was greater than the quality control limit. No action was taken as the LCSD and the relative percent difference (RPD) for the LCS/LCSD for chloroethane were within the quality control limits and all affected samples had non-detected results for chloroethane.

The laboratory control sample duplicate (LCSD) VJPLCS %R for chloroethane was greater than the quality control limit. No action was taken as the LCS and the relative percent difference (RPD) for the LCS/LCSD for chloroethane were within the quality control limits and all affected samples had non-detected results for chloroethane.

The matrix spike (MS) and the MS duplicate (MSD) %R was less than the quality control limit for 1,1,2-trichlorotrifluoroethane for spiked sample CA-PRSC-01-20100407. The affected sample had a non-detected result for 1,1,2-trichlorotrifluoroethane which was qualified estimated, (UJ).

The trip blank had positive VOC detections. Contaminants present in the field trip blank were present in the associated method blank.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method blank contamination resulted in sample data qualification. Hold time exceedances resulted in data qualification of the positive and rejection of non-detected VOC analytes affecting four samples.

Other Factors Affecting Data Quality: Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – Positive result is considered estimated, "J", as a result of technical non-compliances.

UJ – Non-detected result is considered estimated, "UJ", as a result of technical non-compliances.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01-20100407			CA-PRSC-02-01-20100407			CA-PRSC-02-02-20100407RE			CA-PRSC-02-03-20100407RE		
SDG: 1004056	LAB_ID	1004056-01			1004056-04			1004056-05RE1			1004056-06RE1		
FRACTION: OV	SAMP_DATE	4/7/2010			4/7/2010			4/7/2010			4/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	UR	H	5	UR	H
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	UR	H	5	UR	H
1,1,2-TRICHLOROETHANE	5	U		5	U		5	UR	H	5	UR	H
1,1,2-TRICHLOROTRIFLUOROETHANE	5	UJ	D	5	U		5	UR	H	5	UR	H
1,1-DICHLOROETHANE	5	U		9.9			2.4	J	P	5	UR	H
1,1-DICHLOROETHENE	5	U		3.4	J	P	5	UR	H	5	UR	H
1,1-DICHLOROPROPENE	5	U		5	U		5	UR	H	5	UR	H
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	UR	H	5	UR	H
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	UR	H	5	UR	H
1,2-DIBROMOETHANE	5	U		5	U		5	UR	H	5	UR	H
1,2-DICHLOROBENZENE	5	U		5	U		5	UR	H	5	UR	H
1,2-DICHLOROETHANE	5	U		0.42	J	P	5	UR	H	5	UR	H
1,2-DICHLOROPROPANE	5	U		5	U		5	UR	H	5	UR	H
1,3-DICHLOROBENZENE	5	U		5	U		5	UR	H	5	UR	H
1,4-DICHLOROBENZENE	5	U		5	U		5	UR	H	5	UR	H
2-BUTANONE	13	U		13	U		13	UR	H	13	UR	H
2-HEXANONE	13	U		13	U		13	UR	H	13	UR	H
4-METHYL-2-PENTANONE	13	U		13	U		13	UR	H	13	UR	H
ACETONE	13	U		13	U		13	UR	H	13	UR	H
BENZENE	5	U		0.28	J	P	5	UR	H	5	UR	H
BROMODICHLOROMETHANE	5	U		5	U		5	UR	H	5	UR	H
BROMOFORM	5	U		5	U		5	UR	H	5	UR	H
BROMOMETHANE	5	U		5	U		5	UR	H	5	UR	H
CARBON DISULFIDE	5	U		5	U		5	UR	H	5	UR	H
CARBON TETRACHLORIDE	5	U		5	U		5	UR	H	5	UR	H
CHLOROBENZENE	5	U		5	U		5	UR	H	5	UR	H
CHLORODIBROMOMETHANE	5	U		5	U		5	UR	H	5	UR	H
CHLOROETHANE	5	U		5	U		5	UR	H	5	UR	H
CHLOROFORM	5	U		5	U		5	UR	H	5	UR	H
CHLOROMETHANE	5	U		5	U		5	UR	H	5	UR	H
CIS-1,2-DICHLOROETHENE	5	U		1.2	J	P	5	UR	H	5	UR	H
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	UR	H	5	UR	H
CYCLOHEXANE	5	U		5	U		5	UR	H	5	UR	H
DICHLORODIFLUOROMETHANE	5	U		5	U		5	UR	H	5	UR	H
ETHYLBENZENE	5	U		5	U		5	UR	H	5	UR	H
ISOPROPYLBENZENE	5	U		5	U		0.47	J	P	5	UR	H

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03-20100407			CA-PRSC-04-20100407			CA-PRSC-DUP01-20100407			CA-TB01-20100407		
SDG: 1004056	LAB_ID	1004056-02			1004056-08			1004056-07			1004056-03		
FRACTION: OV	SAMP_DATE	4/7/2010			4/7/2010			4/7/2010			4/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							CA-PRSC-03-20100407					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,1,2-TRICHLOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,1-DICHLOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,1-DICHLOROETHENE		5	U		5	UR	H	5	UR	H	5	U	
1,1-DICHLOROPROPENE		5	U		5	UR	H	5	UR	H	5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	UR	H	5	U	A	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	UR	H	5	UR	H	5	U	
1,2-DIBROMOETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,2-DICHLOROBENZENE		5	U		5	UR	H	5	UR	H	5	U	
1,2-DICHLOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
1,2-DICHLOROPROPANE		5	U		5	UR	H	5	UR	H	5	U	
1,3-DICHLOROBENZENE		5	U		5	UR	H	5	UR	H	5	U	
1,4-DICHLOROBENZENE		5	U		5	UR	H	0.3	J	HP	5	U	
2-BUTANONE		13	U		13	UR	H	13	UR	H	13	U	
2-HEXANONE		13	U		13	UR	H	13	UR	H	13	U	
4-METHYL-2-PENTANONE		13	U		13	UR	H	13	UR	H	13	U	
ACETONE		13	U		13	U	A	13	U	A	13	U	
BENZENE		5	U		5	UR	H	5	UR	H	5	U	
BROMODICHLOROMETHANE		5	U		5	UR	H	5	UR	H	5	U	
BROMOFORM		5	U		5	UR	H	5	UR	H	5	U	
BROMOMETHANE		5	U		5	UR	H	5	UR	H	5	U	
CARBON DISULFIDE		5	U		5	UR	H	5	UR	H	5	U	
CARBON TETRACHLORIDE		5	U		5	UR	H	5	UR	H	5	U	
CHLOROBENZENE		5	U		5	UR	H	5	UR	H	5	U	
CHLORODIBROMOMETHANE		5	U		5	UR	H	5	UR	H	5	U	
CHLOROETHANE		5	U		5	UR	H	5	UR	H	5	U	
CHLOROFORM		5	U		5	UR	H	5	UR	H	5	U	
CHLOROMETHANE		5	U		5	UR	H	5	UR	H	0.42	J	P
CIS-1,2-DICHLOROETHENE		5	U		5	UR	H	5	UR	H	5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	UR	H	5	UR	H	5	U	
CYCLOHEXANE		5	U		5	UR	H	5	UR	H	5	U	
DICHLORODIFLUOROMETHANE		5	U		5	UR	H	5	UR	H	5	U	
ETHYLBENZENE		5	U		5	UR	H	5	UR	H	5	U	
ISOPROPYLBENZENE		5	U		5	UR	H	5	UR	H	5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01-20100407			CA-PRSC-02-01-20100407			CA-PRSC-02-02-20100407RE			CA-PRSC-02-03-20100407RE		
SDG: 1004056	LAB_ID	1004056-01			1004056-04			1004056-05RE1			1004056-06RE1		
FRACTION: OV	SAMP_DATE	4/7/2010			4/7/2010			4/7/2010			4/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	UR	H	10	UR	H
METHYL ACETATE		5	U		5	U		5	UR	H	5	UR	H
METHYL CYCLOHEXANE		5	U		5	U		5	UR	H	5	UR	H
METHYL TERT-BUTYL ETHER		5	U		5	U		5	UR	H	5	UR	H
METHYLENE CHLORIDE		5	U		5	U		5	UR	H	5	UR	H
NAPHTHALENE		5	U		5	U	A	5	UR	H	5	UR	H
O-XYLENE		5	U		5	U		5	UR	H	5	UR	H
STYRENE		5	U		5	U		5	UR	H	5	UR	H
TETRACHLOROETHENE		5	U		5	U		5	UR	H	5	UR	H
TOLUENE		5	U		5	U		5	UR	H	5	UR	H
TOTAL 1,2-DICHLOROETHENE		5	U		1.3	J	P	5	UR	H	5	UR	H
TOTAL XYLENES		5	U		5	U		5	UR	H	5	UR	H
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	UR	H	5	UR	H
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	UR	H	5	UR	H
TRICHLOROETHENE		5	U		0.64	J	P	5	UR	H	5	UR	H
TRICHLOROFLUOROMETHANE		5	U		5	U		5	UR	H	5	UR	H
VINYL CHLORIDE		5	U		5	U		5	UR	H	5	UR	H

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03-20100407			CA-PRSC-04-20100407			CA-PRSC-DUP01-20100407			CA-TB01-20100407		
SDG: 1004056	LAB_ID	1004056-02			1004056-08			1004056-07			1004056-03		
FRACTION: OV	SAMP_DATE	4/7/2010			4/7/2010			4/7/2010			4/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							CA-PRSC-03-20100407					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	UR	H	10	UR	H	10	U	
METHYL ACETATE		5	U		5	UR	H	5	UR	H	5	U	
METHYL CYCLOHEXANE		5	U		5	UR	H	5	UR	H	5	U	
METHYL TERT-BUTYL ETHER		5	U		5	UR	H	5	UR	H	5	U	
METHYLENE CHLORIDE		5	U		5	UR	H	5	UR	H	5	U	
NAPHTHALENE		5	U		5	UR	H	5	U	A	1.8	J	P
O-XYLENE		5	U		5	UR	H	5	UR	H	5	U	
STYRENE		5	U		5	UR	H	5	UR	H	5	U	
TETRACHLOROETHENE		5	U		5	UR	H	5	UR	H	5	U	
TOLUENE		5	U		5	UR	H	5	UR	H	5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	UR	H	5	UR	H	5	U	
TOTAL XYLENES		5	U		5	UR	H	5	UR	H	5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	UR	H	5	UR	H	5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	UR	H	5	UR	H	5	U	
TRICHLOROETHENE		5	U		5	UR	H	5	UR	H	5	U	
TRICHLOROFLUOROMETHANE		5	U		5	UR	H	5	UR	H	5	U	
VINYL CHLORIDE		5	U		5	UR	H	5	UR	H	5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **SEPTEMBER 24, 2010**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SDG 1007126

SAMPLES: 7 / Aqueous / VOC

CA-PRSC-01-20100721	CA-PRSC-02-01-20100721	CA-PRSC-02-02-20100721
CA-PRSC-02-03-20100721	CA-PRSC-03-20100721	CA-PRSC-04-20100721
CA-PRSC-DUP01-20100721		

Overview

The sample set for NWIRP Calverton, SDG 1007126 consisted of seven (7) aqueous environmental samples. The aqueous samples were analyzed for volatile organic compounds (VOC). One field duplicate sample pair was associated with this sample data group (SDG); CA-PRSC-DUP01-20100721 / CA-PRSC-03-20100721.

The samples were collected by Tetra Tech on June 21 and 22, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG was validated with regard to the following parameters:

* • Data completeness
* • Hold times
* • GC/MS System Tuning and Performance
• Initial/continuing calibrations
• Laboratory Method Blank Results
* • Laboratory Control Sample Recoveries
* • Surrogate Spike Recoveries
* • Internal Standard Recoveries
* • Field Duplicate Results
* • Compound Identification
* • Compound Quantitation
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The following analytes were detected in the associated method blanks at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene Chloride [1]	1.1	11.0
Toluene [1]	0.65	3.25
Naphthalene [1]	1.3	6.5
Toluene [2]	0.35	1.75

[1] Method blank VBLKJN affecting all samples CA-PRSC-01-20100721, CA-PRSC-02-01-20100721, and CA-PRSC-02-02-20100721.

[2] Method blank VBLKJS affecting samples CA-PRSC-02-03-20100721, CA-PRSC-03-20100721, CA-PRSC-04-20100721, and CA-PRSC-DUP01-20100721.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant methylene chloride, and 5X for other contaminant compounds was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the contract required quantitation limit (CRQL). The maximum methylene chloride result from the two method blanks was used to qualify sample results for method blank contamination.

The continuing calibration verification (CCV) percent difference (%D) exceeded the 20% quality control limit for bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone for instrument 5972HP59 on 07/23/10 @ 13:00 affecting samples CA-PRSC-01-20100721, CA-PRSC-02-01-20100721, and CA-PRSC-02-02-20100721. The non-detected results for bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone for the aforementioned samples were qualified estimated, (UJ).

The continuing calibration verification (CCV) percent difference (%D) exceeded the 20% quality control limit for 1,2,4-trichlorobenzene for instrument 5972HP59 on 07/27/10 @ 11:43 affecting samples CA-PRSC-02-03-20100721, CA-PRSC-03-20100721, CA-PRSC-04-20100721, and CA-PRSC-DUP01-20100721. The non-detected results for 1,2,4-trichlorobenzene for the aforementioned samples were qualified estimated, (UJ).

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Additional Comments

Form I results for VOCs had abbreviated sample numbers listed by the laboratory on the forms. No action was taken by the reviewer.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method blank contamination resulted in qualification of sample analyte data. Non-detected sample VOC results were qualified due to calibration verification %D quality control limit exceedances.

Other Factors Affecting Data Quality: Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01-20100721			CA-PRSC-02-01-20100721			CA-PRSC-02-02-20100721			CA-PRSC-02-03-20100721		
SDG: 1007126	LAB_ID	1007126-01			1007126-02			1007126-03			1007126-04		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		11			5	U		5	U	
1,1-DICHLOROETHENE		5	U		3.5	J	P	5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		0.53	J	P	5	U		5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	U	
2-HEXANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	U	
4-METHYL-2-PENTANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	U	
ACETONE		13	UJ	C	13	UJ	C	13	UJ	C	13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	UJ	C	5	UJ	C	5	UJ	C	5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		1.3	J	P	5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		0.32	J	P

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03-20100721			CA-PRSC-04-20100721			CA-PRSC-DUP01-20100721		
SDG: 1007126	LAB_ID	1007126-05			1007126-06			1007126-07		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF							CA-PRSC-03-20100721		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	UJ	C	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01-20100721			CA-PRSC-02-01-20100721			CA-PRSC-02-02-20100721			CA-PRSC-02-03-20100721		
SDG: 1007126	LAB_ID	1007126-01			1007126-02			1007126-03			1007126-04		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	UJ	C	5	UJ	C	5	UJ	C	5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		1.2	U	A	1.1	U	A	1.1	U	A	1.3	U	A
NAPHTHALENE		5	U		1.8	U	A	5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		0.75	U	A	1	U	A	0.79	U	A	0.62	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		1.3	J	P	5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		0.75	J	P	5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03-20100721			CA-PRSC-04-20100721			CA-PRSC-DUP01-20100721		
SDG: 1007126	LAB_ID	1007126-05			1007126-06			1007126-07		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF							CA-PRSC-03-20100721		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U	
METHYLENE CHLORIDE		1.2	U	A	1.2	U	A	1.3	U	A
NAPHTHALENE		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U	
TOLUENE		0.39	U	A	0.45	U	A	0.45	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **SPTEMBER 7, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1007010

SAMPLES: 19/Aqueous/VOC

DUP-20100629	RB-20100629	SA-TW-341-1115
SA-TW-341-2125	SA-TW-341-3135	SA-TW-341-4145
SA-TW-342-1115	SA-TW-342-2125	SA-TW-342-3135
SA-TW-342-4145	SA-TW-343-1115	SA-TW-343-2125
SA-TW-343-3135	SA-TW-343-4145	SA-TW-344-1115
SA-TW-344-2125	SA-TW-344-3135	SA-TW-344-4145
TB-20100628		

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1007010 consists of seventeen (17) environmental aqueous samples, a rinse blank and a trip blank. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-TW-342-3135/DUP-20100629.

The samples were collected on June 28, 29 and 30, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
• Holding times
* • GC/MS Tuning
• Initial/continuing calibrations
• Laboratory Method Blank Results
* • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
• Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

The hold time for the analysis of diluted sample SA-TW-343-3135 exceeded quality control limits. The positive 1,1-dichloroethane and chloroethane results were qualified as estimated (J). The 1,1-dichloroethane

and chloroethane results were the only results taken from the diluted SA-TW-343-3135 sample used for validation purposes.

Several contaminants were detected in the laboratory method blanks, rinse blank and trip blank at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Acetone [2,4]	2.9 [4]	29.0
Toluene [1,2,4]	1.0 [4]	5.0
Methylene chloride [1,3,4]	1.6 [3]	16.0
Chloromethane [2,4]	0.53 [4]	2.65
1,2,4-trichlorobenzene [2]	0.9	4.5
Naphthalene [1,2,3]	3.8 [2]	19.0
4-methyl-2-pentanone [2]	1.2	6.0

(1) Laboratory method blank VBLKIH associated with batch 0070619 analyzed on July 6, 2010 affecting samples SA-TW-342-4145, SA-TW-342-1115 and SA-TW-342-2125.
(2) Laboratory method blank VBLKIM associated with batch 0070705 analyzed on July 7, 2010 affecting samples SA-TW-342-3135, DUP-20100629, SA-TW-341-1115, SA-TW-341-2125, SA-TW-341-3135, SA-TW-341-4145, SA-TW-343-1115, SA-TW-343-2125, SA-TW-343-3135, SA-TW-343-4145, SA-TW-344-1115, SA-TW-344-2125, SA-TW-344-3135 and SA-TW-344-4145.
(3) Trip blank TB-20100628 affecting all of the samples contained within this SDG.
(4) Rinse blank RB-20100629 affecting all of the samples within this SDG.

An action level of 10X the maximum concentration of acetone and methylene chloride, common laboratory contaminants, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of the other detected contaminants was established to evaluate the samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on nondetected results, positive results greater than the action level or field quality control sample.

The continuing calibration of instrument 5973HP69 on July 7, 2010 @ 12:06 had a percent difference (%D) of chloromethane and 1,2,4-trichlorobenzene greater than the 20% quality control limit. This noncompliance affects samples SA-TW-342-3135, RB-20100629, DUP-20100629, SA-TW-341-1115, SA-TW-341-2125, SA-TW-341-3135, SA-TW-341-4145, SA-TW-343-1115, SA-TW-343-2125, SA-TW-343-3135, SA-TW-343-4145, SA-TW-344-1115, SA-TW-344-2125, SA-TW-344-3135 and SA-TW-344-4145. The nondetected 1,2,4-trichlorobenzene and chloromethane results in the affected samples were qualified as estimated (UJ). The positive chloromethane result in sample RB-20100629 was qualified as estimated (J). No further action was taken on positive 1,2,4-trichlorobenzene and chloromethane results previously qualified due to blank contamination.

Additional Comments

Sample SA-TW-343-3135 was diluted in order to obtain concentrations of 1,1-dichloroethane and chloroethane within the instrument calibration range.

Sample SA-TW-343-4145 was reanalyzed due to suspected carryover of the undiluted analysis of sample SA-TW-343-3135. No carryover was detected in the target analyte results. The original sample results were used for validation purposes.

The continuing calibration %D of bromomethane exceeded the 20% quality control limit on July 14, 2010 @ 12:18 on instrument 5972hp59 affecting the reanalysis of sample SA-TW-343-4145 and the diluted sample SA-TW-343-3135. No action was taken on the bromomethane results in these samples because the results were not used for validation purposes.

Field duplicate imprecision was noted in the field duplicate pair SA-TW-342-3135/DUP-20100629. The relative percent difference (RPD) was greater than the 30% quality control limit for 1,4-dichlorobenzene, 2-butanone, 2-hexanone and chloroform. No action was taken because the absolute difference between the two values was less than 2X the reporting limit.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blanks, rinse blank and trip blank resulting in the qualification of data. The continuing calibration %D of bromomethane, chloromethane and 1,2,4-trichlorobenzene exceeded quality control limits resulting in the qualification of data.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

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Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	DUP-20100629			RB-20100629			SA-TW-341-1115			SA-TW-341-2125		
SDG: 1007010	LAB_ID	1007010-06			1007010-08			1007010-07			1007010-09		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-342-3135											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		2.5	J	P	5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		0.56	J	P	5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U	B	2.9	J	P	13	U	B	13	U	B
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		0.19	J	P	5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U	B	0.53	J	CP	5	U	B	5	U	B
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-341-3135			SA-TW-341-4145			SA-TW-342-1115			SA-TW-342-2125		
SDG: 1007010	LAB_ID	1007010-10			1007010-11			1007010-03			1007010-04		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	UJ	C	5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U	B	13	U	B	13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		0.16	J	P	5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U	B	5	U	B	5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-342-3135			SA-TW-342-4145			SA-TW-343-1115			SA-TW-343-2125		
SDG: 1007010	LAB_ID	1007010-05			1007010-01			1007010-12			1007010-13		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		0.65	J	P
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		2.5	J	P	5	U		5	U		24		
1,1-DICHLOROETHENE		5	U		5	U		5	U		0.78	J	P
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U	A	5	U		5	UJ	C	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		0.73	J	P	5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		0.33	J	P	5	U		5	U		5	U	
2-BUTANONE		1.9	J	P	13	U		13	U		13	U	
2-HEXANONE		2.6	J	P	13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U	A	13	U		13	U		13	U	
ACETONE		13	U	B	13	U		13	U	B	13	U	B
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		0.16	J	P	5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		8.9		
CHLOROFORM		0.27	J	P	5	U		5	U		5	U	
CHLOROMETHANE		5	U	B	5	U		5	U	B	5	U	B
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		0.46	J	P
ISOPROPYLBENZENE		5	U		5	U		5	U		0.67	J	P

PROJ_NO: 01655	NSAMPLE	SA-TW-343-3135			SA-TW-343-4145			SA-TW-344-1115			SA-TW-344-2125		
SDG: 1007010	LAB_ID	1007010-14			1007010-15			1007010-16			1007010-17		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	120			2.1	J	P	5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	1400	J	H	14			5	U		5	U	
1,1-DICHLOROETHENE	60			5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U	A	5	UJ	C	5	UJ	C	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	6.1			5	U		5	U		0.49	J	P
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	0.31	J	P	5	U		5	U		0.57	J	P
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	U	B	13	U	B	13	U	B	13	U	B
BENZENE	3.8	J	P	5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	0.17	J	P	5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	970	J	H	4.1	J	P	5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U	B	5	U	B	5	U	B	5	U	B
CIS-1,2-DICHLOROETHENE	1.1	J	P	5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	4.7	J	P	5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	19			5	U		5	U		5	U	
ISOPROPYLBENZENE	17			5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-344-3135			SA-TW-344-4145			TB-20100628		
SDG: 1007010	LAB_ID	1007010-18			1007010-19			1007010-02		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010			6/28/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.1	J	P	5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	C	5	UJ	C	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U	
ACETONE		13	U	B	13	U	B	13	U	
BENZENE		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U	
CARBON DISULFIDE		0.16	J	P	5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U	
CHLOROMETHANE		5	U	B	5	U	B	5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	DUP-20100629			RB-20100629			SA-TW-341-1115			SA-TW-341-2125		
SDG: 1007010	LAB_ID	1007010-06			1007010-08			1007010-07			1007010-09		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-342-3135											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		0.69	J	P	5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	B	1	J	P	5	U	B	5	U	B
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-341-3135			SA-TW-341-4145			SA-TW-342-1115			SA-TW-342-2125		
SDG: 1007010	LAB_ID	1007010-10			1007010-11			1007010-03			1007010-04		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U	B	5	U	B
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		38			5	U		5	U		5	U	
TOLUENE		5	U	B	5	U	B	5	U	B	5	U	B
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-342-3135			SA-TW-342-4145			SA-TW-343-1115			SA-TW-343-2125		
SDG: 1007010	LAB_ID	1007010-05			1007010-01			1007010-12			1007010-13		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U		5	U	
NAPHTHALENE		5	U	A	5	U	A	5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	B	5	U	B	5	U	B	5	U	B
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-343-3135			SA-TW-343-4145			SA-TW-344-1115			SA-TW-344-2125		
SDG: 1007010	LAB_ID	1007010-14			1007010-15			1007010-16			1007010-17		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		6.5	J	P	10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		2.5	J	P	5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U		5	U	
NAPHTHALENE		98			5	U	A	5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	B	5	U	B	5	U	B	5	U	B
TOTAL 1,2-DICHLOROETHENE		1.1	J	P	5	U		5	U		5	U	
TOTAL XYLENES		6.5			5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		1.3	J	P	5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		3.8	J	P	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-344-3135			SA-TW-344-4145			TB-20100628		
SDG: 1007010	LAB_ID	1007010-18			1007010-19			1007010-02		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010			6/28/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		0.28	J	P	5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		1.4	J	P
NAPHTHALENE		5	U		5	U		2	J	P
O-XYLENE		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U	
TOLUENE		5	U	B	5	U	B	5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **SEPTEMBER 9, 2010**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SDG 1006205

SAMPLES: 9 / Aqueous / VOC

SA-DUP-01-06222010	SA-RB-02-06222010	SA-TB-02-06112010
SA-TW-325-1822	SA-TW-325-3236	SA-TW-325-5054
SA-TW-327-1014	SA-TW-327-2630	SA-TW-327-4145

Overview

The sample set for NWIRP Calverton, SDG 1006205 consisted of nine (9) aqueous environmental samples including one (1) trip blank and one (1) rinse blank sample. The aqueous samples were analyzed for volatile organic compounds (VOC). One field duplicate sample pair was associated with this sample data group (SDG); SA-DUP-01-06222010 / SA-TW-327-4145.

The samples were collected by Tetra Tech on June 21 and 22, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG was validated with regard to the following parameters:

*	• Data completeness
*	• Hold times
*	• GC/MS System Tuning and Performance
	• Initial/continuing calibrations
	• Laboratory Method Blank Results
*	• Laboratory Control Sample Recoveries
*	• Surrogate Spike Recoveries
*	• Internal Standard Recoveries
*	• Field Duplicate Results
*	• Compound Identification
*	• Compound Quantitation
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The following analytes were detected in the associated method blanks at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Toluene [1]	0.53	2.65
Toluene [2]	0.72	3.60
Methylene Chloride [2]	1.0	10.0

[1] Method blank VBLKTT affecting all SDG samples.
[2] Method blank VBLKTV affecting samples SA-DUP-01-06222010RE (dilution re-analysis) and SA-TW-327-4145RE (dilution re-analysis).

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant methylene chloride, and 5X for other contaminant compounds was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the contract required quantitation limit (CRQL). The maximum methylene chloride result from the two method blanks was used to qualify sample results for method blank contamination.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Additional Comments

Samples SA-DUP-01-06222010 and SA-TW-327-4145 were analyzed undiluted and also diluted 2.5X for 1,1-dichloroethane as the sample 1,1-dichloroethane results exceeded the highest calibration level in the undiluted sample analyses.

The continuing calibration verification (CCV) percent difference (%D) exceeded the 20% quality control limit for dichlorodifluoromethane for instrument 5972HP59 on 07/01/10 @ 00:06 affecting samples SA-DUP-01-06222010RE (dilution re-analysis) and SA-TW-327-4145RE (dilution re-analysis). No action was taken as only the analyte 1,1-dichloroethane was reported for the dilution re-analysis of these samples.

The rinse blank SA-RB-02-06222010 and trip blank SA-TB-02-06112010 had positive VOC detections for methylene chloride and toluene which were not qualified for method blank contamination.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method blank contamination resulted in qualification of sample analyte data.

Other Factors Affecting Data Quality: Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-DUP-01-06222010			SA-DUP-01-06222010RE			SA-RB-02-06222010			SA-TB-02-06112010		
SDG: 1006205	LAB_ID	1006205-09			1006205-09RE1			1006205-08			1006205-01		
FRACTION: OV	SAMP_DATE	6/22/2010			6/22/2010			6/22/2010			6/11/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-327-4145			SA-TW-327-4145								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		68						5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U					5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U					5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U					5	U		5	U	
1,1-DICHLOROETHANE					330			5	U		5	U	
1,1-DICHLOROETHENE		17						5	U		5	U	
1,1-DICHLOROPROPENE		5	U					5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U					5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U					5	U		5	U	
1,2-DIBROMOETHANE		5	U					5	U		5	U	
1,2-DICHLOROBENZENE		5	U					5	U		5	U	
1,2-DICHLOROETHANE		5	U					5	U		5	U	
1,2-DICHLOROPROPANE		5	U					5	U		5	U	
1,3-DICHLOROBENZENE		5	U					5	U		5	U	
1,4-DICHLOROBENZENE		1.2	J	P				5	U		5	U	
2-BUTANONE		13	U					13	U		13	U	
2-HEXANONE		13	U					13	U		13	U	
4-METHYL-2-PENTANONE		13	U					13	U		13	U	
ACETONE		13	U					13	U		13	U	
BENZENE		0.41	J	P				5	U		5	U	
BROMODICHLOROMETHANE		5	U					5	U		5	U	
BROMOFORM		5	U					5	U		5	U	
BROMOMETHANE		5	U					5	U		5	U	
CARBON DISULFIDE		5	U					5	U		5	U	
CARBON TETRACHLORIDE		5	U					5	U		5	U	
CHLOROBENZENE		5	U					5	U		5	U	
CHLORODIBROMOMETHANE		5	U					5	U		5	U	
CHLOROETHANE		36						5	U		5	U	
CHLOROFORM		5	U					5	U		5	U	
CHLOROMETHANE		5	U					5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U					5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U					5	U		5	U	
CYCLOHEXANE		5	U					5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U					5	U		5	U	
ETHYLBENZENE		5	U					5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-325-1822			SA-TW-325-3236			SA-TW-325-5054			SA-TW-327-1014		
SDG: 1006205	LAB_ID	1006205-02			1006205-03			1006205-04			1006205-07		
FRACTION: OV	SAMP_DATE	6/21/2010			6/21/2010			6/21/2010			6/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		0.49	J	P	5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		6.3	J	P	13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-327-2630			SA-TW-327-4145			SA-TW-327-4145RE		
SDG: 1006205	LAB_ID	1006205-06			1006205-05			1006205-05RE1		
FRACTION: OV	SAMP_DATE	6/22/2010			6/22/2010			6/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		67					
1,1,2,2-TETRACHLOROETHANE		5	U		5	U				
1,1,2-TRICHLOROETHANE		5	U		5	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U				
1,1-DICHLOROETHANE		5	U					310		
1,1-DICHLOROETHENE		5	U		19					
1,1-DICHLOROPROPENE		5	U		5	U				
1,2,4-TRICHLOROBENZENE		5	U		5	U				
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U				
1,2-DIBROMOETHANE		5	U		5	U				
1,2-DICHLOROBENZENE		5	U		5	U				
1,2-DICHLOROETHANE		5	U		5	U				
1,2-DICHLOROPROPANE		5	U		5	U				
1,3-DICHLOROBENZENE		5	U		5	U				
1,4-DICHLOROBENZENE		5	U		1.2	J	P			
2-BUTANONE		13	U		13	U				
2-HEXANONE		13	U		13	U				
4-METHYL-2-PENTANONE		13	U		13	U				
ACETONE		13	U		13	U				
BENZENE		5	U		0.44	J	P			
BROMODICHLOROMETHANE		5	U		5	U				
BROMOFORM		5	U		5	U				
BROMOMETHANE		5	U		5	U				
CARBON DISULFIDE		5	U		5	U				
CARBON TETRACHLORIDE		5	U		5	U				
CHLOROBENZENE		5	U		5	U				
CHLORODIBROMOMETHANE		5	U		5	U				
CHLOROETHANE		5	U		34					
CHLOROFORM		5	U		5	U				
CHLOROMETHANE		5	U		5	U				
CIS-1,2-DICHLOROETHENE		5	U		5	U				
CIS-1,3-DICHLOROPROPENE		5	U		5	U				
CYCLOHEXANE		5	U		5	U				
DICHLORODIFLUOROMETHANE		5	U		5	U				
ETHYLBENZENE		5	U		5	U				

PROJ_NO: 01655	NSAMPLE	SA-DUP-01-06222010			SA-DUP-01-06222010RE			SA-RB-02-06222010			SA-TB-02-06112010		
SDG: 1006205	LAB_ID	1006205-09			1006205-09RE1			1006205-08			1006205-01		
FRACTION: OV	SAMP_DATE	6/22/2010			6/22/2010			6/22/2010			6/11/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-327-4145			SA-TW-327-4145								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U					5	U		5	U	
M+P-XYLENES		10	U					10	U		10	U	
METHYL ACETATE		5	U					5	U		5	U	
METHYL CYCLOHEXANE		5	U					5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U					5	U		5	U	
METHYLENE CHLORIDE		0.69	U	A				0.65	J	P	0.76	J	P
NAPHTHALENE		5	U					5	U		5	U	
O-XYLENE		5	U					5	U		5	U	
STYRENE		5	U					5	U		5	U	
TETRACHLOROETHENE		5	U					5	U		5	U	
TOLUENE		0.72	U	A				0.53	J	P	0.63	J	P
TOTAL 1,2-DICHLOROETHENE		5	U					5	U		5	U	
TOTAL XYLENES		5	U					5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U					5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U					5	U		5	U	
TRICHLOROETHENE		5	U					5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U					5	U		5	U	
VINYL CHLORIDE		5	U					5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-325-1822			SA-TW-325-3236			SA-TW-325-5054			SA-TW-327-1014		
SDG: 1006205	LAB_ID	1006205-02			1006205-03			1006205-04			1006205-07		
FRACTION: OV	SAMP_DATE	6/21/2010			6/21/2010			6/21/2010			6/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		0.84	U	A	0.69	U	A	0.94	U	A	0.79	U	A
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		0.65	U	A	0.65	U	A	1.2	U	A	0.69	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-327-2630			SA-TW-327-4145			SA-TW-327-4145RE		
SDG: 1006205	LAB_ID	1006205-06			1006205-05			1006205-05RE1		
FRACTION: OV	SAMP_DATE	6/22/2010			6/22/2010			6/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U				
M+P-XYLENES		10	U		10	U				
METHYL ACETATE		5	U		5	U				
METHYL CYCLOHEXANE		5	U		5	U				
METHYL TERT-BUTYL ETHER		5	U		5	U				
METHYLENE CHLORIDE		0.69	U	A	0.68	U	A			
NAPHTHALENE		5	U		5	U				
O-XYLENE		5	U		5	U				
STYRENE		5	U		5	U				
TETRACHLOROETHENE		5	U		5	U				
TOLUENE		0.71	U	A	0.65	U	A			
TOTAL 1,2-DICHLOROETHENE		5	U		5	U				
TOTAL XYLENES		5	U		5	U				
TRANS-1,2-DICHLOROETHENE		5	U		5	U				
TRANS-1,3-DICHLOROPROPENE		5	U		5	U				
TRICHLOROETHENE		5	U		5	U				
TRICHLOROFLUOROMETHANE		5	U		5	U				
VINYL CHLORIDE		5	U		5	U				

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **D. BRAYACK** **DATE:** **SEPTEMBER 10, 2010**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC / OVG**
NWIRP CALVERTON CTO WE08
SDG 1007021

SAMPLES: 20 / Aqueous / VOC

SA-20100707-DUP	SA-20100708-DUP	SA-PZ-133I-20100708
SA-PZ-138I-20100708	SA-PZ-138I1-20100706	SA-PZ-139I-20100708
SA-PZ-149I1-20100708	SA-PZ-151I1-20100707	SA-PZ-155I-20100707
SA-PZ-157I-20100708	SA-PZ-157I1-20100707	SA-PZ-158I-20100706
SA-PZ-158I1-20100706	SA-PZ-159I-20100707	SA-PZ-159I1-20100708
SA-PZ-160I-20100707	SA-PZ-160I1-20100706	SA-PZ-161I-20100707
SA-TB-20100706	SA-TB-20100708	

8 / Aqueous / OVG

SA-20100707-DUP	SA-PZ-151I1-20100707	SA-PZ-155I-20100707
SA-PZ-157I-20100708	SA-PZ-157I1-20100707	SA-PZ-159I-20100707
SA-PZ-159I1-20100708	SA-PZ-160I-20100707	

Overview

The sample set for NWIRP Calverton, SDG 1007021 consisted of twenty (20) aqueous environmental samples including two (2) trip blanks and two (2) field duplicate sample pairs. All aqueous samples were analyzed for volatile organic compounds (VOC) and six (6) samples were analyzed for organic volatile gases (OVG). Two (2) field duplicate pairs were included in this Sample Delivery Group (SDG): SA-20100707-DUP / SA-PZ-155I-20100707 and SA-20100708-DUP / SA-PZ-138I-20100708.

The samples were collected by Tetra Tech on July 6, 7, and 8, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B and RSK-175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Hold times
* • GC/MS System Tuning and Performance
• Initial/continuing calibrations
• Laboratory Control Sample Recoveries
• Laboratory Method Blank Results
* • Matrix Spike/Matrix Spike Duplicate Recoveries
* • Surrogate Spike Recoveries
* • Internal Standard Recoveries
* • Field Duplicate Precision
* • Compound Identification
* • Compound Quantitation
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The continuing calibration verification percent difference (%D) was greater than the 20% quality control limit for bromomethane for instrument 5972HP59 on 07/14/10 @ 11:50 affecting samples SA-PZ-157I1-20100707, SA-PZ-158I-20100706, SA-PZ-158I1-20100706, SA-PZ-160I1-20100706, SA-PZ-138I1-20100706, SA-PZ-161I-20100707, SA-PZ-159I1-20100708, SA-TB-20100708, and SA-PZ-133I-20100708. All affected sample results were non-detected and were qualified estimated, (UJ).

The continuing calibration verification %D was greater than the 20% quality control limit for chloromethane for instrument 5972HP59 on 07/15/10 @ 11:54 affecting samples SA-PZ-159I1-20100708, SA-PZ-157I-20100708, SA-PZ-138I-20100708, SA-20100708-DUP, SA-PZ-149I1-20100708, and SA-PZ-139I-20100708. All affected sample results were non-detected and were qualified estimated, (UJ).

The following analytes were detected in the associated method blanks or the trip blank SA-TB-20100708 (for the common laboratory contaminant methylene chloride) at the maximum concentrations as indicated below affecting all samples:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene Chloride [1]	1.7	17.0
Toluene [2]	0.42	2.10
Toluene [3]	0.64	3.20
Naphthalene [3]	2.2	11.0
Bromomethane [4]	1.1	5.5
Toluene [4]	0.50	2.50

(1) Trip blank SA-TB-20100708 affecting all samples for the common laboratory contaminant methylene chloride.

(2) Method blank VBLKIW affecting samples SA-PZ-160I-20100707, SA-20100707-DUP, SA-PZ-155I-20100707, SA-PZ-159I-20100707, and SA-PZ-151I1-20100707.

(3) Method blank VBLKIY affecting samples SA-PZ-157I1-20100707, SA-PZ-158I-20100706, SA-PZ-158I1-20100706, SA-PZ-160I1-20100706, SA-PZ-138I1-20100706, SA-PZ-161I-20100707, SA-PZ-159I1-20100708, SA-TB-20100708, and SA-PZ-133I-20100708.

(4) Method blank VBLKJA affecting samples SA-PZ-159I1-20100708 dilution, SA-PZ-157I-20100708, SA-PZ-138I-20100708, SA-20100708-DUP, SA-PZ-149I1-20100708, and SA-PZ-139I-20100708.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant compound methylene chloride, and 5X for other contaminant compounds was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the contract required quantitation limit (CRQL).

The matrix spike (MS) and the MS duplicate (MSD) percent recoveries (%R) were less than the quality control limit for 1,1-dichloroethane for sample SA-PZ-160I-20100707. The positive 1,1-dichloroethane result for the sample SA-PZ-160I-20100707 was qualified estimated, (J).

Sample SA-PZ-159I1-20100708 was analyzed for OVGs both undiluted and at a 5X dilution due to the methane result exceeding the highest calibration level in the undiluted sample analysis. The 5X dilution result for methane was inconsistent with the initial undiluted analysis result. The initial undiluted analysis result for methane was 130µg/L for methane, whereas the dilution 5X result was 30µg/L. The initial methane result was reported from the undiluted analysis for sample SA-PZ-159I1-20100708 and was qualified estimated, (J), due to exceeding the calibration level.

Additional Comments

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The laboratory control sample (LCS)/LCS duplicate (LCSD) VIZLCS RPD for bromomethane was greater than the 30% quality control limit. No action was taken as the LCS and the LCSD %Rs for bromomethane were within the quality control limits.

The trip blanks had positive VOC detections for 1,2,4-trichlorobenzene, naphthalene, methylene chloride, and toluene.

Form I results for VOCs and OVGs had abbreviated sample numbers listed by the laboratory on the forms.

The following samples were analyzed for VOCs at a dilution due to a pre-screening analysis by the laboratory. The minimum detection limits (MDL) and reporting limits (RL) for the non-detected sample results were higher as a result of the dilution analyses. Sample SA-PZ-159I1-20100708 was analyzed both undiluted and at a 2X dilution due to the 1,1-dichloroethane result exceeding the highest calibration level in the undiluted sample analysis.. Only the 1,1-dichloroethane result was reported from the dilution analysis for sample SA-PZ-159I1-20100708.

Sample	Dilution
SA-PZ-138I1-20100706	6.7X
SA-PZ-151I1-20100707	3.3X
SA-PZ-157I-20100708	1.4X
SA-PZ-157I1-20100707	2.5X
SA-PZ-158I-20100706	1.7X
SA-PZ-158I1-20100706	2.5X
SA-PZ-159I-20100707	2.0X
SA-PZ-159I1-20100708RE	2.0X
SA-PZ-160I-20100707	1.7X
SA-PZ-160I1-20100706	1.7X
SA-PZ-161I-20100707	4.0X

The following samples were analyzed for OVGs at a dilution due to analytes exceeding the highest calibration level in the undiluted sample analysis. The minimum detection limits (MDL) and reporting limits (RL) for the non-detected sample results were higher as a result of the dilution analyses.

Sample	Dilution
SA-PZ-151I1-20100707	5X
SA-PZ-157I1-20100707	5X

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method blank and trip blank contamination resulted in sample data qualification. The sample SA-PZ-160I-20100707 1,1-dichloroethane positive result was qualified for due to an MS/MSD quality control limit exceedance. The methane and OVG result for sample SA-PZ-159I1-20100708 was qualified due to exceeding the highest calibration level for the analysis.

Other Factors Affecting Data Quality: Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02045	NSAMPLE	SA-20100707-DUP			SA-20100708-DUP			SA-PZ-133I-20100708			SA-PZ-138I1-20100706		
SDG: 1007021	LAB_ID	1007021-06			1007021-17			1007021-19			1007021-11		
FRACTION: OV	SAMP_DATE	7/7/2010			7/8/2010			7/8/2010			7/6/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-155I-20100707			SA-PZ-138I-20100708								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		36			4.4	J	P	24			220		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		33	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		33	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		33	U	
1,1-DICHLOROETHANE		150			20			130			980		
1,1-DICHLOROETHENE		11			1	J	P	7.8			65		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		33	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		0.98	J	P	5.7	J	P
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		33	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		33	U	
1,2-DICHLOROBENZENE		0.4	J	P	5	U		5	U		6.4	J	P
1,2-DICHLOROETHANE		5	U		5	U		5	U		33	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		33	U	
1,3-DICHLOROBENZENE		5	U		5	U		0.7	J	P	3.1	J	P
1,4-DICHLOROBENZENE		5	U		5	U		5	U		13	J	P
2-BUTANONE		13	U		13	U		13	U		83	U	
2-HEXANONE		13	U		13	U		13	U		83	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		83	U	
ACETONE		13	U		13	U		13	U		83	U	
BENZENE		0.31	J	P	5	U		5	U		3.4	J	P
BROMODICHLOROMETHANE		5	U		5	U		5	U		33	U	
BROMOFORM		5	U		5	U		5	U		33	U	
BROMOMETHANE		5	U		5	U		5	UJ	C	33	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		33	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		33	U	
CHLOROBENZENE		5	U		5	U		5	U		33	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		33	U	
CHLOROETHANE		19			1.7	J	P	9.6			210		
CHLOROFORM		5	U		5	U		5	U		33	U	
CHLOROMETHANE		5	U		5	UJ	C	5	U		33	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		33	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		33	U	
CYCLOHEXANE		5	U		5	U		5	U		33	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		33	U	
ETHYLBENZENE		5	U		5	U		5	U		33	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		6.5	J	P

PROJ_NO: 02045	NSAMPLE	SA-PZ-138I-20100708			SA-PZ-139I-20100708			SA-PZ-149I1-20100708			SA-PZ-151I1-20100707		
SDG: 1007021	LAB_ID	1007021-16			1007021-20			1007021-18			1007021-03		
FRACTION: OV	SAMP_DATE	7/8/2010			7/8/2010			7/8/2010			7/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		4.4	J	P	2.3	J	P	6.6			110		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		17	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		17	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		17	U	
1,1-DICHLOROETHANE		20			17			40			490		
1,1-DICHLOROETHENE		1.2	J	P	0.94	J	P	2.6	J	P	33		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		17	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		17	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		17	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		17	U	
1,2-DICHLOROBENZENE		5	U		5	U		1.6	J	P	17	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		17	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		17	U	
1,3-DICHLOROBENZENE		5	U		5	U		1.1	J	P	17	U	
1,4-DICHLOROBENZENE		5	U		5	U		5.4			17	U	
2-BUTANONE		13	U		13	U		13	U		42	U	
2-HEXANONE		13	U		13	U		13	U		42	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		42	U	
ACETONE		13	U		13	U		13	U		42	U	
BENZENE		5	U		5	U		5	U		1.1	J	P
BROMODICHLOROMETHANE		5	U		5	U		5	U		17	U	
BROMOFORM		5	U		5	U		5	U		17	U	
BROMOMETHANE		5	U		5	U		5	U		17	U	
CARBON DISULFIDE		5	U		5	U		5	U		17	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		17	U	
CHLOROBENZENE		5	U		5	U		1.3	J	P	17	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		17	U	
CHLOROETHANE		5	U		1.8	J	P	9.8			99		
CHLOROFORM		5	U		5	U		5	U		17	U	
CHLOROMETHANE		5	UJ	C	5	UJ	C	5	UJ	C	17	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		17	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		17	U	
CYCLOHEXANE		5	U		5	U		5	U		17	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		17	U	
ETHYLBENZENE		5	U		5	U		5	U		17	U	
ISOPROPYLBENZENE		5	U		5	U		0.42	J	P	17	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-155I-20100707			SA-PZ-157I1-20100707			SA-PZ-157I-20100708			SA-PZ-158I1-20100706		
SDG: 1007021	LAB_ID	1007021-05			1007021-04			1007021-14			1007021-09		
FRACTION: OV	SAMP_DATE	7/7/2010			7/7/2010			7/8/2010			7/6/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		38			73			46			66		
1,1,2,2-TETRACHLOROETHANE		5	U		13	U		7.2	U		13	U	
1,1,2-TRICHLOROETHANE		5	U		13	U		7.2	U		13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		13	U		7.2	U		13	U	
1,1-DICHLOROETHANE		150			340			180			340		
1,1-DICHLOROETHENE		12			23			13			19		
1,1-DICHLOROPROPENE		5	U		13	U		7.2	U		13	U	
1,2,4-TRICHLOROBENZENE		5	U		13	U		7.2	U		13	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		13	U		7.2	U		13	U	
1,2-DIBROMOETHANE		5	U		13	U		7.2	U		13	U	
1,2-DICHLOROBENZENE		5	U		13	U		7.2	U		13	U	
1,2-DICHLOROETHANE		5	U		13	U		7.2	U		13	U	
1,2-DICHLOROPROPANE		5	U		13	U		7.2	U		13	U	
1,3-DICHLOROBENZENE		5	U		13	U		7.2	U		13	U	
1,4-DICHLOROBENZENE		0.31	J	P	13	U		7.2	U		13	U	
2-BUTANONE		13	U		31	U		18	U		31	U	
2-HEXANONE		13	U		31	U		18	U		31	U	
4-METHYL-2-PENTANONE		13	U		31	U		18	U		31	U	
ACETONE		13	U		31	U		18	U		31	U	
BENZENE		0.33	J	P	0.81	J	P	0.43	J	P	0.77	J	P
BROMODICHLOROMETHANE		5	U		13	U		7.2	U		13	U	
BROMOFORM		5	U		13	U		7.2	U		13	U	
BROMOMETHANE		5	U		13	UJ	C	7.2	U		13	UJ	C
CARBON DISULFIDE		5	U		13	U		7.2	U		13	U	
CARBON TETRACHLORIDE		5	U		13	U		7.2	U		13	U	
CHLOROBENZENE		5	U		13	U		7.2	U		13	U	
CHLORODIBROMOMETHANE		5	U		13	U		7.2	U		13	U	
CHLOROETHANE		17			57			24			52		
CHLOROFORM		5	U		13	U		7.2	U		13	U	
CHLOROMETHANE		5	U		13	U		7.2	UJ	C	13	U	
CIS-1,2-DICHLOROETHENE		5	U		13	U		7.2	U		13	U	
CIS-1,3-DICHLOROPROPENE		5	U		13	U		7.2	U		13	U	
CYCLOHEXANE		5	U		13	U		7.2	U		13	U	
DICHLORODIFLUOROMETHANE		5	U		13	U		7.2	U		13	U	
ETHYLBENZENE		5	U		13	U		7.2	U		13	U	
ISOPROPYLBENZENE		5	U		13	U		7.2	U		13	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-158I-20100706			SA-PZ-159I1-20100708			SA-PZ-159I1-20100708RE			SA-PZ-159I-20100707		
SDG: 1007021	LAB_ID	1007021-08			1007021-13			1007021-13RE1			1007021-02		
FRACTION: OV	SAMP_DATE	7/6/2010			7/8/2010			7/8/2010			7/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	51			41						75		
1,1,2,2-TETRACHLOROETHANE	8.4	U		5	U					10	U	
1,1,2-TRICHLOROETHANE	8.4	U		5	U					10	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	8.4	U		5	U					10	U	
1,1-DICHLOROETHANE	230						250			300		
1,1-DICHLOROETHENE	15			18						22		
1,1-DICHLOROPROPENE	8.4	U		5	U					10	U	
1,2,4-TRICHLOROBENZENE	8.4	U		5	U					10	U	
1,2-DIBROMO-3-CHLOROPROPANE	8.4	U		5	U					10	U	
1,2-DIBROMOETHANE	8.4	U		5	U					10	U	
1,2-DICHLOROBENZENE	8.4	U		5	U					10	U	
1,2-DICHLOROETHANE	8.4	U		5	U					10	U	
1,2-DICHLOROPROPANE	8.4	U		5	U					10	U	
1,3-DICHLOROBENZENE	8.4	U		5	U					10	U	
1,4-DICHLOROBENZENE	8.4	U		1.7	J	P				10	U	
2-BUTANONE	21	U		13	U					25	U	
2-HEXANONE	21	U		13	U					25	U	
4-METHYL-2-PENTANONE	21	U		13	U					25	U	
ACETONE	21	U		13	U					25	U	
BENZENE	0.52	J	P	0.64	J	P				0.57	J	P
BROMODICHLOROMETHANE	8.4	U		5	U					10	U	
BROMOFORM	8.4	U		5	U					10	U	
BROMOMETHANE	8.4	UJ	C	5	U					10	U	
CARBON DISULFIDE	8.4	U		5	U					10	U	
CARBON TETRACHLORIDE	8.4	U		5	U					10	U	
CHLOROBENZENE	8.4	U		5	U					10	U	
CHLORODIBROMOMETHANE	8.4	U		5	U					10	U	
CHLOROETHANE	26			50						35		
CHLOROFORM	8.4	U		5	U					10	U	
CHLOROMETHANE	8.4	U		5	UJ	C				10	U	
CIS-1,2-DICHLOROETHENE	8.4	U		5	U					10	U	
CIS-1,3-DICHLOROPROPENE	8.4	U		5	U					10	U	
CYCLOHEXANE	8.4	U		5	U					10	U	
DICHLORODIFLUOROMETHANE	8.4	U		5	U					10	U	
ETHYLBENZENE	8.4	U		5	U					10	U	
ISOPROPYLBENZENE	8.4	U		0.29	J	P				10	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-160I1-20100706			SA-PZ-160I-20100707			SA-PZ-161I-20100707			SA-TB-20100706		
SDG: 1007021	LAB_ID	1007021-10			1007021-01			1007021-12			1007021-07		
FRACTION: OV	SAMP_DATE	7/6/2010			7/7/2010			7/7/2010			7/6/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	43			53			100			5	U	
1,1,2,2-TETRACHLOROETHANE	8.4	U		8.4	U		20	U		5	U	
1,1,2-TRICHLOROETHANE	8.4	U		8.4	U		20	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	8.4	U		8.4	U		20	U		5	U	
1,1-DICHLOROETHANE	250			210	J	D	530			5	U	
1,1-DICHLOROETHENE	17			17			31			5	U	
1,1-DICHLOROPROPENE	8.4	U		8.4	U		20	U		5	U	
1,2,4-TRICHLOROBENZENE	8.4	U		1.9	J	P	20	U		0.95	J	P
1,2-DIBROMO-3-CHLOROPROPANE	8.4	U		8.4	U		20	U		5	U	
1,2-DIBROMOETHANE	8.4	U		8.4	U		20	U		5	U	
1,2-DICHLOROBENZENE	8.4	U		8.4	U		20	U		5	U	
1,2-DICHLOROETHANE	8.4	U		8.4	U		20	U		5	U	
1,2-DICHLOROPROPANE	8.4	U		8.4	U		20	U		5	U	
1,3-DICHLOROBENZENE	8.4	U		8.4	U		20	U		5	U	
1,4-DICHLOROBENZENE	8.4	U		8.4	U		20	U		5	U	
2-BUTANONE	21	U		21	U		50	U		13	U	
2-HEXANONE	21	U		21	U		50	U		13	U	
4-METHYL-2-PENTANONE	21	U		21	U		50	U		13	U	
ACETONE	21	U		21	U		50	U		13	U	
BENZENE	0.5	J	P	0.48	J	P	20	U		5	U	
BROMODICHLOROMETHANE	8.4	U		8.4	U		20	U		5	U	
BROMOFORM	8.4	U		8.4	U		20	U		5	U	
BROMOMETHANE	8.4	UJ	C	8.4	U		20	UJ	C	5	U	
CARBON DISULFIDE	8.4	U		8.4	U		20	U		5	U	
CARBON TETRACHLORIDE	8.4	U		8.4	U		20	U		5	U	
CHLOROBENZENE	8.4	U		8.4	U		20	U		5	U	
CHLORODIBROMOMETHANE	8.4	U		8.4	U		20	U		5	U	
CHLOROETHANE	34			26			51			5	U	
CHLOROFORM	8.4	U		8.4	U		20	U		5	U	
CHLOROMETHANE	8.4	U		8.4	U		20	U		5	U	
CIS-1,2-DICHLOROETHENE	8.4	U		8.4	U		20	U		5	U	
CIS-1,3-DICHLOROPROPENE	8.4	U		8.4	U		20	U		5	U	
CYCLOHEXANE	8.4	U		8.4	U		20	U		5	U	
DICHLORODIFLUOROMETHANE	8.4	U		8.4	U		20	U		5	U	
ETHYLBENZENE	8.4	U		8.4	U		20	U		5	U	
ISOPROPYLBENZENE	8.4	U		8.4	U		20	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TB-20100708
SDG: 1007021	LAB_ID	1007021-15
FRACTION: OV	SAMP_DATE	7/8/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,1-DICHLOROPROPENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13	U	
2-HEXANONE	13	U	
4-METHYL-2-PENTANONE	13	U	
ACETONE	13	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	UJ	C
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	

PROJ_NO: 02045	NSAMPLE	SA-20100707-DUP			SA-20100708-DUP			SA-PZ-133I-20100708			SA-PZ-138I1-20100706		
SDG: 1007021	LAB_ID	1007021-06			1007021-17			1007021-19			1007021-11		
FRACTION: OV	SAMP_DATE	7/7/2010			7/8/2010			7/8/2010			7/6/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-155I-20100707			SA-PZ-138I-20100708								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		67	U	
METHYL ACETATE		5	U		5	U		5	U		33	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		33	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		33	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U	B	33	U	B
NAPHTHALENE		5	U		5	U		5	U		33	U	
O-XYLENE		5	U		5	U		5	U		33	U	
STYRENE		5	U		5	U		5	U		33	U	
TETRACHLOROETHENE		5	U		5	U		5	U		33	U	
TOLUENE		5	U	A	5	U		5	U	A	33	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		33	U	
TOTAL XYLENES		5	U		5	U		5	U		33	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		33	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		33	U	
TRICHLOROETHENE		5	U		5	U		5	U		33	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		33	U	
VINYL CHLORIDE		5	U		5	U		5	U		33	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-138I-20100708			SA-PZ-139I-20100708			SA-PZ-149I1-20100708			SA-PZ-151I1-20100707		
SDG: 1007021	LAB_ID	1007021-16			1007021-20			1007021-18			1007021-03		
FRACTION: OV	SAMP_DATE	7/8/2010			7/8/2010			7/8/2010			7/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		33	U	
METHYL ACETATE		5	U		5	U		5	U		17	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		17	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		17	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U	B	17	U	
NAPHTHALENE		5	U		5	U		5	U		17	U	
O-XYLENE		5	U		5	U		5	U		17	U	
STYRENE		5	U		5	U		5	U		17	U	
TETRACHLOROETHENE		5	U		5	U		5	U		17	U	
TOLUENE		5	U		5	U	A	5	U	A	17	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		17	U	
TOTAL XYLENES		5	U		5	U		5	U		17	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		17	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		17	U	
TRICHLOROETHENE		5	U		5	U		5	U		17	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		17	U	
VINYL CHLORIDE		5	U		5	U		5	U		17	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-155I-20100707			SA-PZ-157I1-20100707			SA-PZ-157I-20100708			SA-PZ-158I1-20100706		
SDG: 1007021	LAB_ID	1007021-05			1007021-04			1007021-14			1007021-09		
FRACTION: OV	SAMP_DATE	7/7/2010			7/7/2010			7/8/2010			7/6/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		25	U		14	U		25	U	
METHYL ACETATE		5	U		13	U		7.2	U		13	U	
METHYL CYCLOHEXANE		5	U		13	U		7.2	U		13	U	
METHYL TERT-BUTYL ETHER		5	U		13	U		7.2	U		13	U	
METHYLENE CHLORIDE		5	U		13	U	B	7.2	U	B	13	U	B
NAPHTHALENE		5	U		13	U		7.2	U		13	U	
O-XYLENE		5	U		13	U		7.2	U		13	U	
STYRENE		5	U		13	U		7.2	U		13	U	
TETRACHLOROETHENE		5	U		13	U		7.2	U		13	U	
TOLUENE		5	U	A	13	U	A	7.2	U	A	13	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		13	U		7.2	U		13	U	
TOTAL XYLENES		5	U		13	U		7.2	U		13	U	
TRANS-1,2-DICHLOROETHENE		5	U		13	U		7.2	U		13	U	
TRANS-1,3-DICHLOROPROPENE		5	U		13	U		7.2	U		13	U	
TRICHLOROETHENE		5	U		13	U		7.2	U		13	U	
TRICHLOROFLUOROMETHANE		5	U		13	U		7.2	U		13	U	
VINYL CHLORIDE		5	U		13	U		7.2	U		13	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-158I-20100706			SA-PZ-159I1-20100708			SA-PZ-159I1-20100708RE			SA-PZ-159I-20100707		
SDG: 1007021	LAB_ID	1007021-08			1007021-13			1007021-13RE1			1007021-02		
FRACTION: OV	SAMP_DATE	7/6/2010			7/8/2010			7/8/2010			7/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		17	U		5	U					20	U	
METHYL ACETATE		8.4	U		5	U					10	U	
METHYL CYCLOHEXANE		8.4	U		5	U					10	U	
METHYL TERT-BUTYL ETHER		8.4	U		5	U					10	U	
METHYLENE CHLORIDE		8.4	U	B	5	U	B				10	U	B
NAPHTHALENE		8.4	U		5	U					10	U	
O-XYLENE		8.4	U		10	U					10	U	
STYRENE		8.4	U		5	U					10	U	
TETRACHLOROETHENE		8.4	U		5	U					10	U	
TOLUENE		8.4	U	A	5	U	A				10	U	A
TOTAL 1,2-DICHLOROETHENE		8.4	U		5	U					10	U	
TOTAL XYLENES		8.4	U		5	U					10	U	
TRANS-1,2-DICHLOROETHENE		8.4	U		5	U					10	U	
TRANS-1,3-DICHLOROPROPENE		8.4	U		5	U					10	U	
TRICHLOROETHENE		8.4	U		5	U					10	U	
TRICHLOROFLUOROMETHANE		8.4	U		5	U					10	U	
VINYL CHLORIDE		8.4	U		5	U					10	U	

PROJ_NO: 02045	NSAMPLE	SA-PZ-160I1-20100706			SA-PZ-160I-20100707			SA-PZ-161I-20100707			SA-TB-20100706		
SDG: 1007021	LAB_ID	1007021-10			1007021-01			1007021-12			1007021-07		
FRACTION: OV	SAMP_DATE	7/6/2010			7/7/2010			7/7/2010			7/6/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		17	U		17	U		40	U		10	U	
METHYL ACETATE		8.4	U		8.4	U		20	U		5	U	
METHYL CYCLOHEXANE		8.4	U		8.4	U		20	U		5	U	
METHYL TERT-BUTYL ETHER		8.4	U		8.4	U		20	U		5	U	
METHYLENE CHLORIDE		8.4	U	B	8.4	U	B	20	U	B	0.75	J	P
NAPHTHALENE		8.4	U		4.5	J	P	20	U		2.4	J	P
O-XYLENE		8.4	U		8.4	U		20	U		5	U	
STYRENE		8.4	U		8.4	U		20	U		5	U	
TETRACHLOROETHENE		8.4	U		8.4	U		20	U		5	U	
TOLUENE		8.4	U	A	8.4	U	A	20	U	A	0.72	J	P
TOTAL 1,2-DICHLOROETHENE		8.4	U		8.4	U		20	U		5	U	
TOTAL XYLENES		8.4	U		8.4	U		20	U		5	U	
TRANS-1,2-DICHLOROETHENE		8.4	U		8.4	U		20	U		5	U	
TRANS-1,3-DICHLOROPROPENE		8.4	U		8.4	U		20	U		5	U	
TRICHLOROETHENE		8.4	U		8.4	U		20	U		5	U	
TRICHLOROFLUOROMETHANE		8.4	U		8.4	U		20	U		5	U	
VINYL CHLORIDE		8.4	U		8.4	U		20	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TB-20100708		
SDG: 1007021	LAB_ID	1007021-15		
FRACTION: OV	SAMP_DATE	7/8/2010		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			

PARAMETER	RESULT	VQL	QLCD
M+P-XYLENES	10	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	1.7	J	P
NAPHTHALENE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.58	J	P
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 02045	NSAMPLE	SA-20100707-DUP			SA-PZ-151I1-20100707			SA-PZ-155I-20100707			SA-PZ-157I1-20100707		
SDG: 1007021	LAB_ID	1007021-06			1007021-03			1007021-05			1007021-04		
FRACTION: OVG	SAMP_DATE	7/7/2010			7/7/2010			7/7/2010			7/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-155I-20100707											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1	U		5	U		1	U		5	U	
ETHENE		1	U		5	U		1	U		5	U	
METHANE		12			110			9			80		

PROJ_NO: 02045	NSAMPLE	SA-PZ-157I-20100708			SA-PZ-159I1-20100708			SA-PZ-159I-20100707			SA-PZ-160I-20100707		
SDG: 1007021	LAB_ID	1007021-14			1007021-13			1007021-02			1007021-01		
FRACTION: OVG	SAMP_DATE	7/8/2010			7/8/2010			7/7/2010			7/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1	U		1	U		1	U		1	U	
ETHENE		1	U		1	U		1	U		1	U	
METHANE		14			130	J	L	13			0.6		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **SEPTEMBER 7, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1007011

SAMPLES: 5/Aqueous/VOC

DUP-20100630	SA-TW-335-4145	SA-TW-340-2125
SA-TW-340-3135	SA-TW-340-4145	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1007011 consists of five (5) environmental aqueous samples. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-TW-335-4145/ DUP-20100630.

The samples were collected on June 30, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
	• Holding times
*	• GC/MS Tuning
	• Initial/continuing calibrations
	• Laboratory Method Blank Results
	• Surrogate Recoveries
*	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
	• Field Duplicate Precision
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

The hold time for the analysis of diluted sample SA-TW-340-3135 exceeded quality control limits. The positive 1,1-dichloroethane and chloroethane results were qualified as estimated (J). The 1,1-dichloroethane and chloroethane results were the only results taken from the diluted SA-TW-340-3135 sample used for validation purposes.

Several contaminants were detected in the laboratory method blanks at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Toluene [1,2,3]	0.64	3.2
Methylene chloride [1,2,3]	1.2	12.0
Naphthalene [2]	2.2	11.0
Bromomethane [3]	1.1	5.5

(1) Laboratory method blank VBLKIQ associated with batch 0070902 analyzed on July 10, 2010 affecting samples SA-TW-340-3135, SA-TW-340-4145 and SA-TW-335-4145.
(2) Laboratory method blank VBLKIY associated with batch 0071409 analyzed on July 14, 2010 affecting SA-TW-340-2125 and DUP-20100630.
(3) Laboratory method blank VBLKIZ associated with batch 0071511 analyzed on July 15, 2010 affecting samples SA-TW-340-3135DL, SA-TW-340-4145RE and SA-TW-4145RE.

An action level of 10X the maximum concentration of methylene chloride, common laboratory contaminant, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of the other detected contaminants was established to evaluate the samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on nondetected results or positive results greater than the action level.

The initial calibration relative standard deviation (RSD) of bromomethane was greater than the 15% quality control limit on July 10, 2010 on instrument 5972hp59. The nondetected bromomethane results in the affected samples SA-TW-340-3135, SA-TW-340-4145 and SA-TW-335-4145 were qualified as estimated (UJ).

The continuing calibration percent difference (%D) of bromomethane was greater than the 20% quality control limit on July 14, 2010 @ 12:18 on instrument 5972hp59 affecting samples SA-TW-340-2125 and DUP-20100630. The nondetected bromomethane results in the affected samples were qualified as estimated (UJ).

The percent recoveries (%R) of the following surrogates were greater than the upper quality control limit in the following samples.

Sample	Surrogate
SA-TW-340-3135	dibromofluoromethane
SA-TW-340-4145	1,2-dichloroethane-d4
SA-TW-335-4145	1,2-dichloroethane-d4

The positive detections in samples SA-TW-340-3135, SA-TW-4145 and SA-TW-335-4145 were qualified as estimated (J).

Additional Comments

Sample SA-TW-340-3135 was diluted in order to obtain concentrations of 1,1-dichloroethane and chloroethane within the instrument calibration range.

Samples SA-TW-340-4145 and SA-TW-335-4145 were reanalyzed. These samples were associated with the initial calibration noncompliance on July 10, 2010 and high surrogate recoveries. Sample SA-TW-340-4145 was suspected of having carryover from sample SA-TW-340-3135. The samples were reanalyzed outside of hold time. The reanalyzed samples had %Rs of surrogates within quality control limits. No carryover was detected in sample SA-TW-340-4145. The original sample results were used for validation purposes because according to the USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B guidelines, the nondetected results in the reanalyzed samples would be rejected for exceeding hold time.

The continuing calibration %D of chloromethane was greater than the 20% quality control limit on July 15, 2010 @ 11:54 on instrument 5972hp59 affecting the diluted sample SA-TW-340-3135DL and reanalyzed samples SA-TW-340-4145RE and SA-TW-335-4145RE. No action was taken on the nondetected chloromethane results because they were not used for validation purposes. The chloromethane result in the original sample was used for validation purposes.

Field duplicate imprecision was noted in the field duplicate pair SA-TW-335-4145/DUP-20100630. The relative percent difference (RPD) was greater than the 30% quality control limit for 1,1-dichloroethane and chloromethane. No action was taken because the absolute difference between the two values was less than 2X the reporting limit.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blanks resulting in the qualification of data. The continuing calibration %D of bromomethane exceeded quality control limits resulting in the qualification of data. The surrogate recoveries exceeded the upper quality control limit resulting in the qualification of data. The hold time for the analysis of diluted sample SA-TW-340-3135 exceeded quality control limits.

Other Factors Affecting Data Quality: None.

TO: R. Sok
FROM: A. Cognetti
DATE: September 7, 2010
SDG: 1007011
PAGE: 4

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	DUP-20100630			SA-TW-335-4145			SA-TW-340-2125			SA-TW-340-3135		
SDG: 1007011	LAB_ID	1007011-05			1007011-04			1007011-01			1007011-02		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010			6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-335-4145											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		0.59	J	P	0.6	J	PR	5	U		70	J	R
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		1.3	J	P	5	U		5	U				
1,1-DICHLOROETHENE		5	U		5	U		5	U		21	J	R
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		1.9	J	PR
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		2.1	J	PR
1,2-DICHLOROETHANE		5	U		5	U		5	U		0.54	J	PR
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		2.1	J	PR
1,4-DICHLOROBENZENE		5	U		5	U		5	U		8.8	J	R
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		3.1	J	PR
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		1	J	PR
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U				
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		0.52	J	PR	5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5.6	J	R
ISOPROPYLBENZENE		5	U		5	U		5	U		19	J	R

PROJ_NO: 01655	NSAMPLE	SA-TW-340-3135RE			SA-TW-340-4145		
SDG: 1007011	LAB_ID	1007011-02RE1			1007011-03		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					0.99	J	PR
1,1,2,2-TETRACHLOROETHANE					5	U	
1,1,2-TRICHLOROETHANE					5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					5	U	
1,1-DICHLOROETHANE		460	J	H	3.1	J	PR
1,1-DICHLOROETHENE					1.3	J	PR
1,1-DICHLOROPROPENE					5	U	
1,2,4-TRICHLOROBENZENE					2.6	J	PR
1,2-DIBROMO-3-CHLOROPROPANE					5	U	
1,2-DIBROMOETHANE					5	U	
1,2-DICHLOROBENZENE					0.66	J	PR
1,2-DICHLOROETHANE					5	U	
1,2-DICHLOROPROPANE					5	U	
1,3-DICHLOROBENZENE					5	U	
1,4-DICHLOROBENZENE					5	U	
2-BUTANONE					13	U	
2-HEXANONE					13	U	
4-METHYL-2-PENTANONE					13	U	
ACETONE					13	U	
BENZENE					0.46	J	PR
BROMODICHLOROMETHANE					5	U	
BROMOFORM					5	U	
BROMOMETHANE					5	UJ	C
CARBON DISULFIDE					5	U	
CARBON TETRACHLORIDE					5	U	
CHLOROBENZENE					5	U	
CHLORODIBROMOMETHANE					5	U	
CHLOROETHANE		310	J	H	10	J	R
CHLOROFORM					5	U	
CHLOROMETHANE					5	U	
CIS-1,2-DICHLOROETHENE					5	U	
CIS-1,3-DICHLOROPROPENE					5	U	
CYCLOHEXANE					5	U	
DICHLORODIFLUOROMETHANE					5	U	
ETHYLBENZENE					5	U	
ISOPROPYLBENZENE					2.7	J	PR

PROJ_NO: 01655	NSAMPLE	DUP-20100630			SA-TW-335-4145			SA-TW-340-2125			SA-TW-340-3135		
SDG: 1007011	LAB_ID	1007011-05			1007011-04			1007011-01			1007011-02		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010			6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-TW-335-4145											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	A	5	U		5	U	A	5	U	A
NAPHTHALENE		5	U		5	U		5	U		27	J	R
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		0.43	J	PR
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-340-3135RE			SA-TW-340-4145		
SDG: 1007011	LAB_ID	1007011-02RE1			1007011-03		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES					10	U	
METHYL ACETATE					5	U	
METHYL CYCLOHEXANE					5	U	
METHYL TERT-BUTYL ETHER					1.3	J	PR
METHYLENE CHLORIDE					5	U	A
NAPHTHALENE					5	U	
O-XYLENE					5	U	
STYRENE					5	U	
TETRACHLOROETHENE					5	U	
TOLUENE					5	U	A
TOTAL 1,2-DICHLOROETHENE					5	U	
TOTAL XYLENES					5	U	
TRANS-1,2-DICHLOROETHENE					5	U	
TRANS-1,3-DICHLOROPROPENE					5	U	
TRICHLOROETHENE					5	U	
TRICHLOROFLUOROMETHANE					5	U	
VINYL CHLORIDE					5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **SEPTEMBER 15, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1007009

SAMPLES: 12/Aqueous/VOC

SA-DUP-02-20100630	SA-PZ-140-20100630	SA-PZ-141-20100630
SA-PZ-142-20100629	SA-PZ-143-20100629	SA-PZ-144I-20100629
SA-PZ-144S-20100629	SA-PZ-145D-20100630	SA-PZ-145I-20100630
SA-PZ-145S-20100630	SA-TB-03-20100618	SA-TW-345

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1007009 consists of eleven (11) environmental aqueous samples and a trip blank. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-PZ-145D-20100630/SA-DUP-02-20100630.

The samples were collected on June 18, 28, 29 and 30, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
- Holding times
- * GC/MS Tuning
- Initial/continuing calibrations
- Laboratory Method Blank Results
- * Surrogate Recoveries
- * Matrix Spike / Matrix Spike Duplicate Recoveries
- * Laboratory Control Sample Recoveries
- * Internal Standard Recoveries
- * Compound Quantitation
- * Compound Identification
- * Field Duplicate Precision
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

The hold time for sample SA-TB-03-20100618 exceeded quality control limits. Sample was prepared by the laboratory on June 18, 2010. The trip blank accompanied samples collected on June 28 through June 30, 2010. Samples were received at the laboratory on July 1, 2010. Analysis of the trip blank was done witihin five days from receipt. The positive results were qualified as estimated and the nondetected results were rejected (UR).

Several contaminants were detected in the laboratory method blanks and trip blank at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Acetone [1]	2.8	28.0
Acetone [2]	2.4	24.0
Toluene [1]	0.57	2.85
Toluene [2]	0.46	2.3
Toluene [3]	0.64	3.2
Methylene chloride [3]	1.1	11.0
Chloromethane [1]	1.1	5.5
Chloromethane [2]	0.48	2.4
1,2,4-trichlorobenzene [1]	0.76	3.8
1,2,4-trichlorobenzene [2]	0.90	4.5
Naphthalene [1]	2.3	11.5
Naphthalene [2]	3.8	19.0
Naphthalene [3]	2.2	11.0
Carbon disulfide [1]	0.17	0.85
2-hexanone [1]	1.8	9.0
4-methyl-2-pentanone [2]	1.2	6.0
4-methyl-2-pentanone [4]	1.6	8.0
1,2-dichlorobenzene [4]	0.39	1.95
1,4-dichlorobenzene [4]	0.42	2.1

(1) Laboratory method blank VBLKIJ associated with batch 0070629 analyzed on July 6, 2010 affecting samples SA-PZ-140-20100630, SA-TB-03-020100618, SA-TW-345, SA-PZ-144S-20100629, SA-PZ-144I-20100629, SA-PZ-142-20100629 and SA-PZ-143-20100629.
(2) Laboratory method blank VBLKIM associated with batch 0070705 analyzed on July 7, 2010 affecting samples SA-PZ-142-20100629DL, SA-PZ-143-20100629DL, SA-PZ-145D-20100630, SA-PZ-145I-20100630, SA-PZ-145S-20100630 and SA-DUP-02-20100630..
(3) Laboratory method blank VBLKIY associated with batch 0071409 analyzed on July 14, 2010 affecting sample SA-PZ-141-20100630.
(4) Trip blank SA-TB-03-20100618 affecting all of the samples contained within this SDG.

An action level of 10X the maximum concentration of acetone and methylene chloride, common laboratory contaminants, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of the other detected contaminants was established to evaluate the samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on nondetected results, positive results greater than the action level or field quality control sample.

The continuing calibration of instrument 5973HP69 on July 7, 2010 @ 12:06 had a percent difference (%D) of chloromethane and 1,2,4-trichlorobenzene greater than the 20% quality control limit. The nondetected chloromethane results in samples SA-DUP-02-20100630 and SA-PZ-145S-20100630

were qualified as estimated (UJ). The nondetected 1,2,4-trichlorobenzene result in sample SA-PZ-145S-20100630 was qualified as estimated (UJ). The positive 1,2,4-trichlorobenzene results in affected samples SA-PZ-145D-20100630, SA-PZ-145I-20100630 and SA-PZ-DUP-02-20100630 were previously qualified due to blank contamination. The positive chloromethane results in the affected samples SA-PZ-145D-20100630 and SA-PZ-145I-20100630 were previously qualified due to blank contamination. No further validation action was taken. No action was taken on the chloromethane and 1,2,4-trichlorobenzene results in the diluted samples of SA-PZ-142-20100629 and SA-PZ-143-20100629 because these target analytes were taken from the original sample for validation purposes.

The continuing calibration %D of bromomethane exceeded the 20% quality control limit on July 14, 2010 @ 12:18 on instrument 5972hp59. The nondetected bromomethane result in the affected sample SA-PZ-141-20100630 was qualified as estimated (UJ).

Additional Comments

The form 1s of the original analyses of samples SA-PZ-142-20100629 and SA-PZ-143-20100629 were incorrect. The form 1s reflected the diluted reporting limits of these samples dilutions not the undiluted. The laboratory was requested to resubmit the corrected form 1s which resulted in a delay of the review. The final corrected data was received approximately a little over a week from the initial request to the laboratory.

Samples SA-PZ-142-20100629 and SA-PZ-143-20100629 were diluted in order to obtain concentrations of 1,1-dichloroethane within the instrument calibration range.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blanks and trip blank resulting in the qualification of data. The continuing calibration %D of bromomethane, chloromethane and 1,2,4-trichlorobenzene exceeded quality control limits resulting in the qualification of data

Other Factors Affecting Data Quality: Hold time exceedance occurred in sample SA-TB-03-20100618 resulting in the qualification and rejection of data.

TO: R. Sok
FROM: A. Cognetti
DATE: September 15, 2010
SDG: 1007009
PAGE: 4

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-DUP-02-20100630			SA-PZ-140-20100630			SA-PZ-141-20100630			SA-PZ-142-20100629		
SDG: 1007009	LAB_ID	1007009-11			1007009-01			1007009-12			1007009-06		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010			6/30/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-145D-20100630											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		17			5	U		60		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		19			140			2.8	J	P			
1,1-DICHLOROETHENE		1	J	P	8.5			5	U		21		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U	A	5	U	A	5	U		5	U	A
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U	B	5	U		5	U	B
1,2-DICHLOROETHANE		5	U		5	U		5	U		0.55	J	P
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		1.2	J	P	5	U		5	U	
1,4-DICHLOROBENZENE		5	U		4.1	J	P	5	U	B	1.5	J	P
2-BUTANONE		13	U		2.1	J	P	13	U		13	U	
2-HEXANONE		13	U		13	U	A	13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U	B	13	U		13	U	
ACETONE		13	U	A	13	U	A	13	U		13	U	A
BENZENE		5	U		5	U		5	U		0.42	J	P
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	UJ	C	5	U	
CARBON DISULFIDE		5	U		5	U	A	5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		0.58	J	P	5	U		0.34	J	P
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		0.83	J	P	19			5	U		36		
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	5	U	A	5	U		5	U	A
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-142-20100629RE			SA-PZ-143-20100629			SA-PZ-143-20100629RE			SA-PZ-144I-20100629		
SDG: 1007009	LAB_ID	1007009-06RE1			1007009-07			1007009-07RE1			1007009-05		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE					110						5	U	
1,1,2,2-TETRACHLOROETHANE					5	U					5	U	
1,1,2-TRICHLOROETHANE					5	U					5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE					5	U					5	U	
1,1-DICHLOROETHANE		410						590			3.7	J	P
1,1-DICHLOROETHENE					39						5	U	
1,1-DICHLOROPROPENE					5	U					5	U	
1,2,4-TRICHLOROBENZENE					5	U	A				5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE					5	U					5	U	
1,2-DIBROMOETHANE					5	U					5	U	
1,2-DICHLOROBENZENE					1.6	J	P				5	U	
1,2-DICHLOROETHANE					0.83	J	P				5	U	
1,2-DICHLOROPROPANE					5	U					5	U	
1,3-DICHLOROBENZENE					0.69	J	P				5	U	
1,4-DICHLOROBENZENE					3.1	J	P				5	U	B
2-BUTANONE					13	U					13	U	
2-HEXANONE					13	U					13	U	
4-METHYL-2-PENTANONE					13	U					13	U	
ACETONE					13	U	A				13	U	A
BENZENE					0.87	J	P				5	U	
BROMODICHLOROMETHANE					5	U					5	U	
BROMOFORM					5	U					5	U	
BROMOMETHANE					5	U					5	U	
CARBON DISULFIDE					5	U					5	U	
CARBON TETRACHLORIDE					5	U					5	U	
CHLOROBENZENE					5	U					5	U	
CHLORODIBROMOMETHANE					5	U					5	U	
CHLOROETHANE					44						5	U	
CHLOROFORM					5	U					5	U	
CHLOROMETHANE					5	U	A				5	U	A
CIS-1,2-DICHLOROETHENE					5	U					5	U	
CIS-1,3-DICHLOROPROPENE					5	U					5	U	
CYCLOHEXANE					5	U					5	U	
DICHLORODIFLUOROMETHANE					5	U					5	U	
ETHYLBENZENE					5	U					5	U	
ISOPROPYLBENZENE					0.9	J	P				5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-144S-20100629			SA-PZ-145D-20100630			SA-PZ-145I-20100630			SA-PZ-145S-20100630		
SDG: 1007009	LAB_ID	1007009-04			1007009-08			1007009-09			1007009-10		
FRACTION: OV	SAMP_DATE	6/29/2010			6/30/2010			6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		8.7			5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		18			91			5	U	
1,1-DICHLOROETHENE		5	U		1.1	J	P	8.2			5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U	A	5	U	A	5	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U	B	5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U	A	13	U	A	13	U	A	13	U	A
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		0.99	J	P	6.1			5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U	A	5	U	A	5	U	A	5	UJ	C
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TB-03-20100618			SA-TW-345		
SDG: 1007009	LAB_ID	1007009-02			1007009-03		
FRACTION: OV	SAMP_DATE	6/18/2010			6/28/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UR	H	5	U	
1,1,2,2-TETRACHLOROETHANE		5	UR	H	5	U	
1,1,2-TRICHLOROETHANE		5	UR	H	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UR	H	5	U	
1,1-DICHLOROETHANE		5	UR	H	5	J	P
1,1-DICHLOROETHENE		5	UR	H	5	U	
1,1-DICHLOROPROPENE		5	UR	H	5	U	
1,2,4-TRICHLOROBENZENE		1.4	J	HP	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UR	H	5	U	
1,2-DIBROMOETHANE		5	UR	H	5	U	
1,2-DICHLOROBENZENE		0.39	J	HP	5	U	
1,2-DICHLOROETHANE		5	UR	H	5	U	
1,2-DICHLOROPROPANE		5	UR	H	5	U	
1,3-DICHLOROBENZENE		5	UR	H	5	U	
1,4-DICHLOROBENZENE		0.42	J	HP	5	U	
2-BUTANONE		13	UR	H	13	U	
2-HEXANONE		0.49	J	HP	13	U	
4-METHYL-2-PENTANONE		1.6	J	HP	13	U	
ACETONE		3	J	HP	13	U	A
BENZENE		5	UR	H	5	U	
BROMODICHLOROMETHANE		5	UR	H	5	U	
BROMOFORM		5	UR	H	5	U	
BROMOMETHANE		5	UR	H	5	U	
CARBON DISULFIDE		5	UR	H	5	U	A
CARBON TETRACHLORIDE		5	UR	H	5	U	
CHLOROBENZENE		5	UR	H	5	U	
CHLORODIBROMOMETHANE		5	UR	H	5	U	
CHLOROETHANE		5	UR	H	5	U	
CHLOROFORM		5	UR	H	5	U	
CHLOROMETHANE		0.76	J	HP	5	U	A
CIS-1,2-DICHLOROETHENE		5	UR	H	5	U	
CIS-1,3-DICHLOROPROPENE		5	UR	H	5	U	
CYCLOHEXANE		5	UR	H	5	U	
DICHLORODIFLUOROMETHANE		5	UR	H	5	U	
ETHYLBENZENE		5	UR	H	5	U	
ISOPROPYLBENZENE		5	UR	H	5	U	

PROJ_NO: 01655	NSAMPLE	SA-DUP-02-20100630			SA-PZ-140-20100630			SA-PZ-141-20100630			SA-PZ-142-20100629		
SDG: 1007009	LAB_ID	1007009-11			1007009-01			1007009-12			1007009-06		
FRACTION: OV	SAMP_DATE	6/30/2010			6/30/2010			6/30/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-145D-20100630											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		0.64	J	P	5	U	A	5	U	
NAPHTHALENE		5	U		5	U	A	5	U	A	5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		0.6	J	P	5	U		1.7	J	P

PROJ_NO: 01655	NSAMPLE	SA-PZ-142-20100629RE			SA-PZ-143-20100629			SA-PZ-143-20100629RE			SA-PZ-144I-20100629		
SDG: 1007009	LAB_ID	1007009-06RE1			1007009-07			1007009-07RE1			1007009-05		
FRACTION: OV	SAMP_DATE	6/29/2010			6/29/2010			6/29/2010			6/29/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES					10	U					10	U	
METHYL ACETATE					5	U					5	U	
METHYL CYCLOHEXANE					5	U					5	U	
METHYL TERT-BUTYL ETHER					5	U					5	U	
METHYLENE CHLORIDE					0.56	J	P				5	U	
NAPHTHALENE					5	U	A				5	U	
O-XYLENE					5	U					5	U	
STYRENE					5	U					5	U	
TETRACHLOROETHENE					5	U					5	U	
TOLUENE					5	U	A				5	U	A
TOTAL 1,2-DICHLOROETHENE					5	U					5	U	
TOTAL XYLENES					5	U					5	U	
TRANS-1,2-DICHLOROETHENE					5	U					5	U	
TRANS-1,3-DICHLOROPROPENE					5	U					5	U	
TRICHLOROETHENE					5	U					5	U	
TRICHLOROFLUOROMETHANE					5	U					5	U	
VINYL CHLORIDE					2.4	J	P				5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-144S-20100629			SA-PZ-145D-20100630			SA-PZ-145I-20100630			SA-PZ-145S-20100630		
SDG: 1007009	LAB_ID	1007009-04			1007009-08			1007009-09			1007009-10		
FRACTION: OV	SAMP_DATE	6/29/2010			6/30/2010			6/30/2010			6/30/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		0.53	J	P	5	U	

PROJ_NO: 01655	NSAMPLE	SA-TB-03-20100618			SA-TW-345		
SDG: 1007009	LAB_ID	1007009-02			1007009-03		
FRACTION: OV	SAMP_DATE	6/18/2010			6/28/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UR	H	10	U	
METHYL ACETATE		5	UR	H	5	U	
METHYL CYCLOHEXANE		5	UR	H	5	U	
METHYL TERT-BUTYL ETHER		5	UR	H	5	U	
METHYLENE CHLORIDE		5	UR	H	5	U	
NAPHTHALENE		4.8	J	HP	5	U	A
O-XYLENE		5	UR	H	0.42	J	P
STYRENE		5	UR	H	5	U	
TETRACHLOROETHENE		5	UR	H	5	U	
TOLUENE		0.49	J	HP	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	UR	H	5	U	
TOTAL XYLENES		5	UR	H	0.42	J	P
TRANS-1,2-DICHLOROETHENE		5	UR	H	5	U	
TRANS-1,3-DICHLOROPROPENE		5	UR	H	5	U	
TRICHLOROETHENE		5	UR	H	5	U	
TRICHLOROFLUOROMETHANE		5	UR	H	5	U	
VINYL CHLORIDE		5	UR	H	5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** AUGUST 31, 2010

FROM: A. COGNETTI **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1007124

SAMPLES: 5/Aqueous/VOC

SA-PZ-124-20100721 SA-PZ-125-20100721 SA-PZ-147-20100721
SA-PZ-148-20100721 SA-PZ-DUP01-20100721

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1007124 consists of five (5) environmental aqueous samples. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-PZ-125-20100721/ SA-PZ-DUP01-20100721.

The samples were collected by Tetra Tech on July 21, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
• Initial/continuing calibrations
• Laboratory Method Blank Results
* • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
* • Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Several contaminants were detected in the laboratory method blank VBLKJN associated with batch 0072310 analyzed on July 23, 2010 affecting all samples.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Toluene	0.65	3.25
Methylene chloride	1.1	11.0
Naphthalene	1.3	6.5

An action level of 10X the maximum concentration of methylene chloride, common laboratory contaminant, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of the other detected contaminants was established to evaluate the samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on nondetected results.

The continuing calibration percent difference (%D) for several compounds exceeded the 20% quality control limit on July 23, 2010 @ 13:00 on instrument 5972hp59 affecting all samples. The nondetected bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone and 2-hexanone results were qualified as estimated (UJ).

Additional Comments

Samples identifications were incorrectly marked on the chain of custody for samples SA-PZ-146-20100721 and SA-PZ-147-20100721. The project team decided to change the sample identifications as noted in the attached email.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blank resulting in the qualification of data. The continuing calibration %D of several compounds exceeded quality control limits resulting in the qualification of data.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-PZ-124-20100721			SA-PZ-125-20100721			SA-PZ-147-20100721			SA-PZ-148-20100721		
SDG: 1007124	LAB_ID	1007124-01			1007124-02			1007124-03			1007124-04		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	15			5	U		5	U		5	U	
1,1-DICHLOROETHENE	2.1	J	P	5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
2-HEXANONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
4-METHYL-2-PENTANONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
ACETONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-DUP01-20100721
SDG: 1007124	LAB_ID	1007124-05
FRACTION: OV	SAMP_DATE	7/21/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	SA-PZ-125-20100721

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,1-DICHLOROPROPENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13	UJ	C
2-HEXANONE	13	UJ	C
4-METHYL-2-PENTANONE	13	UJ	C
ACETONE	13	UJ	C
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	UJ	C
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-124-20100721			SA-PZ-125-20100721			SA-PZ-147-20100721			SA-PZ-148-20100721		
SDG: 1007124	LAB_ID	1007124-01			1007124-02			1007124-03			1007124-04		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	A	5	U	A	5	U	A	5	U	A
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-DUP01-20100721
SDG: 1007124	LAB_ID	1007124-05
FRACTION: OV	SAMP_DATE	7/21/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	SA-PZ-125-20100721

PARAMETER	RESULT	VQL	QLCD
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5	UJ	C
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	A
NAPHTHALENE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	A
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

o

TO: R. SOK **DATE:** SEPTEMBER 24, 2010

FROM: JOSEPH KALINYAK **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
NWIRP CALVERTON CTO 160
SDG 1006141

SAMPLES: 12 / Aqueous / VOC

SA-FB01-06182010	SA-RB01-06182010	SA-TB01-06112010
SA-TW-326-1822	SA-TW-326-3236	SA-TW-326-4246
SA-TW-328-0812	SA-TW-328-2327	SA-TW-328-3640
SA-TW-329-1014	SA-TW-329-2630	SA-TW-329-4044

Overview

The sample set for NWIRP Calverton, SDG 1006141 consisted of twelve (12) aqueous environmental samples including one (1) trip blank, one (1) field blank, and one (1) rinse blank sample. The aqueous samples were analyzed for volatile organic compounds (VOC). No field duplicate sample pairs were associated with this sample data group (SDG).

The samples were collected by Tetra Tech on June 11, 17, and 18, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG was validated with regard to the following parameters:

* • Data completeness
* • Hold times
* • GC/MS System Tuning and Performance
• Initial/continuing calibrations
• Laboratory Method Blank Results
* • Laboratory Control Sample Recoveries
* • Surrogate Spike Recoveries
* • Internal Standard Recoveries
• Matrix Spike/Matrix Spike Duplicate Recoveries
* • Compound Identification
* • Compound Quantitation
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The following analytes were detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Toluene [1]	1.2	6.0
Naphthalene [1]	1.2	6.0
Toluene [2]	0.93	4.65
Naphthalene [2]	1.3	6.5
Acetone [3]	6.1	61.0
Methylene Chloride [3]	3.5	35.0

[1] Method blank VBLKHO affecting samples SA-TW-328-3640, SA-FB01-06182010, SA-RB01-06182010, SA-TW-329-1014, SA-TW-329-2630, SA-TW-326-1822, SA-TW-326-3236, and SA-TW-326-4246.

[2] Method blank VBLKTH affecting samples SA-TW-329-4044, SA-TW-328-0812, and SA-TW-328-2327.

[3] Field blank affecting all SDG samples. Only the common laboratory contaminants acetone and methylene chloride from the rinse, trip, and field blanks were used to evaluate samples for blank contamination. The maximum concentrations were used in the evaluation.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant compounds acetone and methylene chloride, and 5X for other contaminant compounds was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the contract required quantitation limit (CRQL).

The continuing calibration verification (CCV) percent difference (%D) exceeded the 20% quality control limit for bromomethane, chloroethane, and trichlorofluoromethane for instrument 5972HP59 on 06/22/10 @ 22:43 affecting samples SA-TW-329-4044, SA-TW-328-0812, SA-TW-328-2327, and SA-TB01-06112010. The positive and non-detected aforementioned analyte sample results were qualified estimated, (J) and (UJ), respectively.

The matrix spike (MS) and the MS duplicate (MSD) %Rs were less than the quality control (QC) limit for 1,1,2-trichlorotrifluoroethane and 1,1-dichloroethane for spiked sample SA-TW-329-4044. No action was necessary as the LCS %Rs were within the quality control limits and the MS/MSD %Rs were marginally less than the QC limit, 1%-3%. The sample positive 1,1-dichloroethane result was not qualified as the sample 1,1-dichloroethane concentration was significantly higher than the spike concentration (>10X).

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Additional Comments

Samples were analyzed both undiluted and also diluted for analytes that exceeded the highest calibration level. The following is a list of the samples and the dilutions.

Sample	Dilution
SA-TW-326-4246	2.5X

SA-TW-328-2327	2.5X
SA-TW-329-4044	6.7X

The CCV %D exceeded the 20% quality control limit for a number of analytes for instrument 5972HP59 on 06/23/10 @ 21:37 affecting the dilution analysis of sample SA-TW-326-4246. None of the analyte results were qualified as only the unaffected analyte 1,1-dichloroethane was reported from this analysis.

The MSD %Rs were less than the quality control limit for 1,1-dichloroethene and 1,1,1-trichloroethane for spiked sample SA-TW-329-4044. The affected sample results were not qualified as the MS had %Rs within the quality control limits for the aforementioned analytes.

The trip blank, rinse blank, and field blank had positive VOC detections.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method and field blank contamination resulted in qualification of sample analyte data. VOC analyte results for samples SA-TW-329-4044, SA-TW-328-0812, and SA-TW-328-2327 were qualified due to CCV %D quality control limit exceedances.

Other Factors Affecting Data Quality: Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-FB01-06182010			SA-RB01-06182010			SA-TB01-06112010			SA-TW-326-1822		
SDG: 1006141	LAB_ID	1006141-06			1006141-07			1006141-02			1006141-10		
FRACTION: OV	SAMP_DATE	6/18/2010			6/18/2010			6/11/2010			6/18/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		6.1	J	P	13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	UJ	C	5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		3.9	J	P	5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	UJ	C	5	U	
CHLOROFORM		0.43	J	P	5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-326-3236			SA-TW-326-4246			SA-TW-328-0812			SA-TW-328-2327		
SDG: 1006141	LAB_ID	1006141-11			1006141-12			1006141-03			1006141-04		
FRACTION: OV	SAMP_DATE	6/18/2010			6/18/2010			6/17/2010			6/17/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		44			5	U		19		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		32			310			5	U		360		
1,1-DICHLOROETHENE		1.4	J	P	15			5	U		19		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		2.1	J	P	1.8	J	P	5	U		0.81	J	P
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		1.1	J	P	0.36	J	P	5	U		1.4	J	P
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		0.89	J	P
1,4-DICHLOROBENZENE		2.9	J	P	0.71	J	P	5	U		3.8	J	P
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U	B	13	U	B	13	U		13	U	
BENZENE		5	U		0.3	J	P	5	U		0.88	J	P
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	UJ	C	5	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		0.54	J	P
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		22			5	UJ	C	29	J	C
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		1.7	J	P

PROJ_NO: 01655	NSAMPLE	SA-TW-328-3640			SA-TW-329-1014			SA-TW-329-2630			SA-TW-329-4044		
SDG: 1006141	LAB_ID	1006141-05			1006141-08			1006141-09			1006141-01		
FRACTION: OV	SAMP_DATE	6/17/2010			6/18/2010			6/18/2010			6/18/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		28			5	U		1.9	J	P	170		
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		170			5.2			44			900		
1,1-DICHLOROETHENE		12			5	U		2.2	J	P	69		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		1.2	J	P	5	U		5	U		1	J	P
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		0.4	J	P	5	U		5	U		0.94	J	P
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		0.97	J	P	5	U		5	U		1	J	P
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U	B	13	U		13	U		13	U	B
BENZENE		5	U		5	U		5	U		1.9	J	P
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		10			5	U		4.9	J	P	39	J	C
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		0.29	J	P	1.3	J	P

PROJ_NO: 01655	NSAMPLE	SA-FB01-06182010			SA-RB01-06182010			SA-TB01-06112010			SA-TW-326-1822		
SDG: 1006141	LAB_ID	1006141-06			1006141-07			1006141-02			1006141-10		
FRACTION: OV	SAMP_DATE	6/18/2010			6/18/2010			6/11/2010			6/18/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		3.5	J	P	3	J	P	0.7	J	P	5	U	B
NAPHTHALENE		5	U		5	U		1.6	J	P	5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		0.89	J	P	0.97	J	P	1.1	J	P	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	UJ	C	5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-326-3236			SA-TW-326-4246			SA-TW-328-0812			SA-TW-328-2327		
SDG: 1006141	LAB_ID	1006141-11			1006141-12			1006141-03			1006141-04		
FRACTION: OV	SAMP_DATE	6/18/2010			6/18/2010			6/17/2010			6/17/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U	B	5	U	B
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	UJ	C	5	UJ	C
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-328-3640			SA-TW-329-1014			SA-TW-329-2630			SA-TW-329-4044		
SDG: 1006141	LAB_ID	1006141-05			1006141-08			1006141-09			1006141-01		
FRACTION: OV	SAMP_DATE	6/17/2010			6/18/2010			6/18/2010			6/18/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U	B	5	U	B
NAPHTHALENE		5	U	A	5	U		5	U		7.9		
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		0.4	J	P
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	UJ	C
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** SEPTEMBER 7, 2010

FROM: A. COGNETTI **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1007123

SAMPLES: 6/Aqueous/VOC

SA-SW-124-20100721	SA-SW-125-20100721	SA-SW-201-20100721
SA-SW-204-20100721	SA-SW-DUP01-20100721	SA-TB-20100721

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1007123 consists of five (5) environmental aqueous samples and a trip blank. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-SW-201-20100721/ SA-SW-DUP01-20100721.

The samples were collected by Tetra Tech on July 21, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
• Initial/continuing calibrations
• Laboratory Method Blank Results
* • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
* • Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Several contaminants were detected in the laboratory method blank and trip blank at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Toluene [1,2]	0.65	3.25
Methylene chloride [1,2]	1.4	14.0
Naphthalene [1,2]	1.9	9.5

(1) Laboratory method blank VBLKJN associated with batch 0072310 analyzed on July 23, 2010 affecting all samples.
(2) Trip blank SA-TB-20100721 affecting all samples. Lab prepared trip blank because bottle received from the field was cracked.

An action level of 10X the maximum concentration of methylene chloride, common laboratory contaminant, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of the other detected contaminants was established to evaluate the samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U). No action was taken on nondetected results or the field quality blank.

The continuing calibration percent difference (%D) for several compounds exceeded the 20% quality control limit on July 23, 2010 @ 13:00 on instrument 5972hp59 affecting all samples. The nondetected bromomethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone and 2-hexanone results were qualified as estimated (UJ).

Additional Comments

Sample SA-SW-125-20100721 was not marked on the chain of custody for VOC analysis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in a laboratory method blank and trip blank resulting in the qualification of data. The continuing calibration %D of several compounds exceeded quality control limits resulting in the qualification of data.

Other Factors Affecting Data Quality: None.

TO: R. Sok
FROM: A. Cognetti
DATE: September 7, 2010
SDG: 1007123
PAGE: 3

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-SW-124-20100721			SA-SW-125-20100721			SA-SW-201-20100721			SA-SW-204-20100721		
SDG: 1007123	LAB_ID	1007123-03			1007123-04			1007123-05			1007123-01		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
2-HEXANONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
4-METHYL-2-PENTANONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
ACETONE	13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-DUP01-20100721			SA-TB-20100721		
SDG: 1007123	LAB_ID	1007123-06			1007123-02		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	SA-SW-201-20100721					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U	
2-BUTANONE		13	UJ	C	13	UJ	C
2-HEXANONE		13	UJ	C	13	UJ	C
4-METHYL-2-PENTANONE		13	UJ	C	13	UJ	C
ACETONE		13	UJ	C	13	UJ	C
BENZENE		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U	
BROMOFORM		5	U		5	U	
BROMOMETHANE		5	UJ	C	5	UJ	C
CARBON DISULFIDE		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U	
CHLOROBENZENE		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U	
CHLOROETHANE		5	U		5	U	
CHLOROFORM		5	U		5	U	
CHLOROMETHANE		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U	
CYCLOHEXANE		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U	
ETHYLBENZENE		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-124-20100721			SA-SW-125-20100721			SA-SW-201-20100721			SA-SW-204-20100721		
SDG: 1007123	LAB_ID	1007123-03			1007123-04			1007123-05			1007123-01		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	B	5	U	B	5	U	B	5	U	B
NAPHTHALENE		5	U		5	U		5	U		5	U	B
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-DUP01-20100721			SA-TB-20100721		
SDG: 1007123	LAB_ID	1007123-06			1007123-02		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	SA-SW-201-20100721					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U	
METHYL ACETATE		5	UJ	C	5	UJ	C
METHYL CYCLOHEXANE		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U	
METHYLENE CHLORIDE		5	U	B	1.4	J	P
NAPHTHALENE		5	U		1.9	J	P
O-XYLENE		5	U		5	U	
STYRENE		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U	
TOLUENE		5	U	A	0.75	J	P
TOTAL 1,2-DICHLOROETHENE		5	U		5	U	
TOTAL XYLENES		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U	
TRICHLOROETHENE		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U	
VINYL CHLORIDE		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **SEPTEMBER 14, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1007125

SAMPLES: 5/Sediment/VOC

SA-SD-124-000.5-20100721 SA-SD-125-000.5-20100721
SA-SD-201-000.5-20100721 SA-SD-204-000.5-20100721
SA-SD-DUP01-20100721

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1007125 consists of five (5) environmental sediment samples. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-SD-201-000.5-20100721/ SA-SD-DUP01-20100721.

The samples were collected by Tetra Tech on July 21, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
- * Holding times
- * GC/MS Tuning
- Initial/continuing calibrations
- Laboratory Method Blank Results
- * Surrogate Recoveries
- Matrix Spike / Matrix Spike Duplicate Recoveries
- * Laboratory Control Sample Recoveries
- * Internal Standard Recoveries
- * Compound Quantitation
- * Compound Identification
- * Field Duplicate Precision
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Sample SA-SD-124-000.5-20100721 contains less than 30% solids. Positive and nondetected results were qualified as estimated (J) and (UJ), respectively.

Several contaminants were detected in the laboratory method blank VBLKJU associated with batch 0072804 analyzed on July 28, 2010 affecting all samples.

Contaminant	Maximum Concentration (ug/kg)	Action Level (ug/kg)
Toluene	0.43	2.15
Methylene chloride	0.75	7.5

An action level of 10X the maximum concentration of methylene chloride, common laboratory contaminant, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of toluene was established to evaluate the samples for laboratory method blank contamination. Sample aliquot, percent solids and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U).

The continuing calibration response factor for acetone was less than the 0.05 quality control limit. The positive and nondetected acetone results were qualified as estimated (J) and rejected (UR), respectively.

The matrix spike/ matrix spike duplicate (MS/MSD) percent recovery (%R) of 1,2,4-trichlorobenzene in sample SA-SD-204-000.5-20100721 was less than the lower quality control limit and the relative percent difference (RPD) was greater than the quality control limit. No action required based on the MS %R noncompliance alone. The %R of methylcyclohexane, m&p xylenes, styrene, isopropylbenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene and 1,2-dichlorobenzene were less than the lower quality control limit in the MSD. The RPD for the aforementioned compounds was within quality control limits. No action was taken.

Additional Comments

The laboratory had to be contacted in regards to the detection limit, limit of detection and limit of quantitation on the form 1 not reflecting the percent solids. The laboratory needed to resubmit data which resulted in a delay of the review. The final corrected data was received approximately a little over a week from the initial request to the laboratory.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Toluene and methylene chloride were detected in a laboratory method blank resulting in the qualification of data. Continuing calibration RF of acetone was less than the 0.05 quality control limits. Reporting/completeness issues resulted in a delay of the review.

Other Factors Affecting Data Quality: Sample SA-SD-124-000.5-20100721 contains less than 30% solids.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-SD-124-000.5-20100721			SA-SD-125-000.5-20100721			SA-SD-201-000.5-20100721			SA-SD-204-000.5-20100721		
SDG: 1007125	LAB_ID	1007125-02			1007125-03			1007125-04			1007125-01		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	29.0			54.0			77.0			80.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,1,2,2-TETRACHLOROETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,1,2-TRICHLOROETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,1-DICHLOROETHANE		8.8	J	PY	9.3	U		6.5	U		6.3	U	
1,1-DICHLOROETHENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,1-DICHLOROPROPENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,2,4-TRICHLOROBENZENE		9.1	J	PY	9.3	U		6.5	U		6.3	U	
1,2-DIBROMO-3-CHLOROPROPANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,2-DIBROMOETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,2-DICHLOROBENZENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,2-DICHLOROETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,2-DICHLOROPROPANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,3-DICHLOROBENZENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
1,4-DICHLOROBENZENE		4.1	J	PY	9.3	U		6.5	U		6.3	U	
2-BUTANONE		63	J	Y	23	U		16	U		16	U	
2-HEXANONE		44	UJ	Y	23	U		16	U		16	U	
4-METHYL-2-PENTANONE		44	UJ	Y	23	U		16	U		16	U	
ACETONE		260	J	CY	23	UR	C	16	UR	C	16	UR	C
BENZENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
BROMODICHLOROMETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
BROMOFORM		18	UJ	Y	9.3	U		6.5	U		6.3	U	
BROMOMETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CARBON DISULFIDE		3.4	J	PY	9.3	U		6.5	U		6.3	U	
CARBON TETRACHLORIDE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CHLOROBENZENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CHLORODIBROMOMETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CHLOROETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CHLOROFORM		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CHLOROMETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CIS-1,2-DICHLOROETHENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CIS-1,3-DICHLOROPROPENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
CYCLOHEXANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
DICHLORODIFLUOROMETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
ETHYLBENZENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
ISOPROPYLBENZENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01-20100721
SDG: 1007125	LAB_ID	1007125-05
FRACTION: OV	SAMP_DATE	7/21/2010
MEDIA: SOIL	QC_TYPE	NM
	UNITS	UG/KG
	PCT_SOLIDS	75.0
	DUP_OF	SA-SD-201-000.5-20100721

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	6.7	U	
1,1,2,2-TETRACHLOROETHANE	6.7	U	
1,1,2-TRICHLOROETHANE	6.7	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	6.7	U	
1,1-DICHLOROETHANE	6.7	U	
1,1-DICHLOROETHENE	6.7	U	
1,1-DICHLOROPROPENE	6.7	U	
1,2,4-TRICHLOROBENZENE	6.7	U	
1,2-DIBROMO-3-CHLOROPROPANE	6.7	U	
1,2-DIBROMOETHANE	6.7	U	
1,2-DICHLOROBENZENE	6.7	U	
1,2-DICHLOROETHANE	6.7	U	
1,2-DICHLOROPROPANE	6.7	U	
1,3-DICHLOROBENZENE	6.7	U	
1,4-DICHLOROBENZENE	6.7	U	
2-BUTANONE	17	U	
2-HEXANONE	17	U	
4-METHYL-2-PENTANONE	17	U	
ACETONE	17	UR	C
BENZENE	6.7	U	
BROMODICHLOROMETHANE	6.7	U	
BROMOFORM	6.7	U	
BROMOMETHANE	6.7	U	
CARBON DISULFIDE	6.7	U	
CARBON TETRACHLORIDE	6.7	U	
CHLOROBENZENE	6.7	U	
CHLORODIBROMOMETHANE	6.7	U	
CHLOROETHANE	6.7	U	
CHLOROFORM	6.7	U	
CHLOROMETHANE	6.7	U	
CIS-1,2-DICHLOROETHENE	6.7	U	
CIS-1,3-DICHLOROPROPENE	6.7	U	
CYCLOHEXANE	6.7	U	
DICHLORODIFLUOROMETHANE	6.7	U	
ETHYLBENZENE	6.7	U	
ISOPROPYLBENZENE	6.7	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-124-000.5-20100721			SA-SD-125-000.5-20100721			SA-SD-201-000.5-20100721			SA-SD-204-000.5-20100721		
SDG: 1007125	LAB_ID	1007125-02			1007125-03			1007125-04			1007125-01		
FRACTION: OV	SAMP_DATE	7/21/2010			7/21/2010			7/21/2010			7/21/2010		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	29.0			54.0			77.0			80.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		35	UJ	Y	19	U		13	U		13	U	
METHYL ACETATE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
METHYL CYCLOHEXANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
METHYL TERT-BUTYL ETHER		18	UJ	Y	9.3	U		6.5	U		6.3	U	
METHYLENE CHLORIDE		18	U	A	9.3	U	A	6.5	U	A	6.3	U	A
NAPHTHALENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
O-XYLENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
STYRENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TETRACHLOROETHENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TOLUENE		18	U	A	9.3	U		6.5	U		6.3	U	A
TOTAL 1,2-DICHLOROETHENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TOTAL XYLENES		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TRANS-1,2-DICHLOROETHENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TRANS-1,3-DICHLOROPROPENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TRICHLOROETHENE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
TRICHLOROFLUOROMETHANE		18	UJ	Y	9.3	U		6.5	U		6.3	U	
VINYL CHLORIDE		18	UJ	Y	9.3	U		6.5	U		6.3	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01-20100721
SDG: 1007125	LAB_ID	1007125-05
FRACTION: OV	SAMP_DATE	7/21/2010
MEDIA: SOIL	QC_TYPE	NM
	UNITS	UG/KG
	PCT_SOLIDS	75.0
	DUP_OF	SA-SD-201-000.5-20100721

PARAMETER	RESULT	VQL	QLCD
M+P-XYLENES	13	U	
METHYL ACETATE	6.7	U	
METHYL CYCLOHEXANE	6.7	U	
METHYL TERT-BUTYL ETHER	6.7	U	
METHYLENE CHLORIDE	6.7	U	A
NAPHTHALENE	6.7	U	
O-XYLENE	6.7	U	
STYRENE	6.7	U	
TETRACHLOROETHENE	6.7	U	
TOLUENE	6.7	U	A
TOTAL 1,2-DICHLOROETHENE	6.7	U	
TOTAL XYLENES	6.7	U	
TRANS-1,2-DICHLOROETHENE	6.7	U	
TRANS-1,3-DICHLOROPROPENE	6.7	U	
TRICHLOROETHENE	6.7	U	
TRICHLOROFLUOROMETHANE	6.7	U	
VINYL CHLORIDE	6.7	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** OCTOBER 28, 2010

FROM: A. COGNETTI **COPIES:** DV FILE

SUBJECT: **ORGANIC DATA VALIDATION – VOC/OVG**
FULL REVIEW
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1009182

SAMPLES: 21/Aqueous/VOC

FC-MW-01I-20100915	FC-MW-01S-20100915	FC-MW-02I-20100915
FC-MW-02S-2010915	FC-MW-04I-20100915	FC-MW-04S-20100915
FT-DUP01-20100914	FT-MW-01I-20100914	FT-MW-01S-20100914
FT-MW-02I-20100914	FT-MW-02S-20100914	FT-MW-03-20100914
FT-MW-04-20100914	FT-MW-05I-20100914	FT-MW-05S-20100914
FT-MW-06I-20100914	FT-MW-06S-20100914	FT-MW-07S-20100914
FT-MW-08I-20100914	FT-MW-08S-20100914	TB01-20100914

8/Aqueous/OVG

FC-MW-02I-20100915	FC-MW-02S-20100915	FT-MW-02I-20100914
FT-MW-02S-20100914	FT-MW-05I-20100914	FT-MW-05S-20100914
FT-MW-08I-20100914	FT-MW-08S-20100914	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1009182 consists of twenty (20) environmental aqueous samples and one (1) trip blank analyzed for select volatile organic compounds (VOC). Eight (8) aqueous environmental samples were analyzed for Organic Volatile Gases (OVG). There are two (2) field duplicate pairs within this SDG: FC-MW-02S-20100915/FC-DUP02-20100915 and FT-MW-02S-20100914/FT-DUP01-20100914. Sample FC-DUP02-20100915 is contained in SDG 1009183.

The samples were collected on September 14 and 15, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B and OVG EPA method RSK-175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
• Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

The following contaminants were detected in the laboratory method blank VBLKLBA at the following maximum concentrations:

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
1,2,4-Trichlorobenzene	0.68	3.4
Naphthalene	1.4	7.0
Toluene	0.53	2.65

An action level of 5X the maximum concentration was established in order to evaluate the affected samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results in the affected samples less than the reporting limit and action level were raised to the reporting limit and qualified as (U). The affected samples are FT-MW-06I-20100914, TB01-20100914, FT-MW-05S-20100914, FT-MW-08S-20100914, FT-MW-08I-20100914, FT-MW-05I-20100914, FT-MW-02I-20100914, FT-MW-02S-20100914, FC-MW-02S-20100915, FC-MW-02I-20100915, FT-MW-07S-20100914, FT-MW-04-20100914, FT-MW-06S-20100914 and FT-MW-03-20100914.

The trip blank TB01-20100914 contains toluene. Field quality control samples are not qualified due to laboratory blank contamination.

Field duplicate imprecision was noted in the field duplicate pair FC-02S-20100915 and FC-DUP02-20100915. The relative percent difference (RPD) exceeded 30% quality control limit for 2-butanone, methylene chloride, m&p-xylenes, o-xylene, and total xylenes in the field duplicate pair FC-MW-02S-20100915 / FC-DUP02-20100915. The positive and nondetected results for 2-butanone, methylene chloride, m&p-xylenes, o-xylene, and total xylenes in samples FC-MW-02S-20100915 / FC-DUP02-20100915 were qualified as estimated (J) and (UJ), respectively.

Field duplicate imprecision was noted in the field duplicate pair FT-MW-02S-20100914 and FT-DUP01-20100914. The RPD exceeded the 30% quality control limit for total xylenes. The positive total xylenes results in samples FT-MW-02S-20100914 and FT-DUP01-20100914 were qualified as estimated (J).

Organic Volatile Gases

Samples FC-MW-02S-20100915, FT-MW-02S-20100914 and FT-MW-08I-20100914 required dilutions because of methane concentrations greater than the linear calibration range of the instrument. Only the methane results are reported from the sample dilution. The ethane and ethene results are reported from the undiluted runs.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the detection limit (DL) were qualified as estimated, (J), due to uncertainty near the detection limit. Nondetected results were reported to the LOQ.

EXECUTIVE SUMMARY

Laboratory Performance Issues: 1,2,4-Trichlorobenzene, naphthalene and toluene were detected in a laboratory method blank resulting in the qualification of data.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted in the field duplicate pair FC-MW-02S-20100915/FC-DUP02-20100915 for 2-butanone, m&p xylenes, methylene chloride, o-xylene and total xylenes.Field duplicate imprecision was noted in the field duplicate pair FT-MW-02S-20100194 and FT-DUP01-20100914 for total xylenes.

The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, October 2006, USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti
Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
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Appendix A

Qualified Analytical Results

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A = Lab Blank Contamination
B = Field Blank Contamination
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C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	FC-MW-01I-20100915			FC-MW-01S-20100915			FC-MW-02I-20100915			FC-MW-02S-20100915		
SDG: 1009182	LAB_ID	1009182-19			1009182-20			1009182-10			1009182-09		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		11		
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		1.5	J	P
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		18	J	GP
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		0.36	J	P	1	J	P
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		6.3		

PROJ_NO: 01655	NSAMPLE	FC-MW-04I-20100915			FC-MW-04S-20100915			FT-DUP01-20100914			FT-MW-01I-20100914		
SDG: 1009182	LAB_ID	1009182-21			1009182-18			1009182-17			1009182-15		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							FT-MW-02S-20100914					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		11			5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		1.5	J	P
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		4.2	J	P	5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		12	J	P	13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		55			13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5.3			5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-01S-20100914			FT-MW-02I-20100914			FT-MW-02S-20100914			FT-MW-03-20100914		
SDG: 1009182	LAB_ID	1009182-16			1009182-07			1009182-08			1009182-14		
FRACTION: OV	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		15			5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U	A	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		4.3	J	P	5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		1.6	J	P	5	U	
2-BUTANONE		13	U		13	U		15			13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		64			13	U	
BENZENE		5	U		5	U		0.31	J	P	5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		2.3	J	P	5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		6.2			5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-04-20100914			FT-MW-05I-20100914			FT-MW-05S-20100914			FT-MW-06I-20100914		
SDG: 1009182	LAB_ID	1009182-12			1009182-06			1009182-03			1009182-01		
FRACTION: OV	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	U		13	U		13	U		13	U	
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		0.52	J	P	5	U		0.51	J	P
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-06S-20100914			FT-MW-07S-20100914			FT-MW-08I-20100914			FT-MW-08S-20100914		
SDG: 1009182	LAB_ID	1009182-13			1009182-11			1009182-05			1009182-04		
FRACTION: OV	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		2.2	J	P	5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		2.5	J	P	5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		0.16	J	P	5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	TB01-20100914
SDG: 1009182	LAB_ID	1009182-02
FRACTION: OV	SAMP_DATE	9/14/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,1-DICHLOROPROPENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13	U	
2-HEXANONE	13	U	
4-METHYL-2-PENTANONE	13	U	
ACETONE	13	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	

PROJ_NO: 01655	NSAMPLE	FC-MW-01I-20100915			FC-MW-01S-20100915			FC-MW-02I-20100915			FC-MW-02S-20100915		
SDG: 1009182	LAB_ID	1009182-19			1009182-20			1009182-10			1009182-09		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		4.7	J	P
M+P-XYLENES		10	U		10	U		10	U		21	J	GP
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	UJ	G
NAPHTHALENE		5	U		5	U		5	U		18		
O-XYLENE		5	U		5	U		5	U		17	J	GP
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		39	J	GP
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	FC-MW-04I-20100915			FC-MW-04S-20100915			FT-DUP01-20100914			FT-MW-01I-20100914		
SDG: 1009182	LAB_ID	1009182-21			1009182-18			1009182-17			1009182-15		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							FT-MW-02S-20100914					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		1.8	J	P	5	U	
M+P-XYLENES		10	U		10	U		6.3	J	P	10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		20			4.2	J	P
O-XYLENE		5	U		5	U		10			5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		16	J	G	5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		2.8	J	P	5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-01S-20100914			FT-MW-02I-20100914			FT-MW-02S-20100914			FT-MW-03-20100914		
SDG: 1009182	LAB_ID	1009182-16			1009182-07			1009182-08			1009182-14		
FRACTION: OV	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		2.5	J	P	5	U	
M+P-XYLENES		10	U		10	U		8.6	J	P	10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		26			5	U	
O-XYLENE		5	U		5	U		13			5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		22	J	G	5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		2.8	J	P	5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-04-20100914			FT-MW-05I-20100914			FT-MW-05S-20100914			FT-MW-06I-20100914		
SDG: 1009182	LAB_ID	1009182-12			1009182-06			1009182-03			1009182-01		
FRACTION: OV	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	A
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-06S-20100914			FT-MW-07S-20100914			FT-MW-08I-20100914			FT-MW-08S-20100914		
SDG: 1009182	LAB_ID	1009182-13			1009182-11			1009182-05			1009182-04		
FRACTION: OV	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		5	U		5	U		0.66	J	P	5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U	A	5	U	
O-XYLENE		5	U		5	U		0.9	J	P	5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		0.9	J	P	5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	TB01-20100914
SDG: 1009182	LAB_ID	1009182-02
FRACTION: OV	SAMP_DATE	9/14/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
NAPHTHALENE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	0.56	J	P
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 01655	NSAMPLE	FC-MW-02I-20100915			FC-MW-02S-20100915			FC-MW-02S-20100915DL			FT-MW-02I-20100914		
SDG: 1009182	LAB_ID	1009182-10			1009182-09			1009182-09RE1			1009182-07		
FRACTION: OVG	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U		1.1	U					1.1	U	
ETHENE		1	U		1	U					1	U	
METHANE		0.32	J	P				130			0.58	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-02S-20100914			FT-MW-02S-20100914DL			FT-MW-05I-20100914			FT-MW-05S-20100914		
SDG: 1009182	LAB_ID	1009182-08			1009182-08RE1			1009182-06			1009182-03		
FRACTION: OVG	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U					1.1	U		1.1	U	
ETHENE		1	U					1	U		1	U	
METHANE					230			0.45	J	P	0.58	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-08I-20100914			FT-MW-08I-20100914DL			FT-MW-08S-20100914		
SDG: 1009182	LAB_ID	1009182-05			1009182-05RE1			1009182-04		
FRACTION: OVG	SAMP_DATE	9/14/2010			9/14/2010			9/14/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U					1.1	U	
ETHENE		1	U					1	U	
METHANE					37			11		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** NOVEMBER 11, 2010

FROM: A. COGNETTI **COPIES:** DV FILE

SUBJECT: **ORGANIC DATA VALIDATION – VOC/OVG**
FULL REVIEW
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1009221

SAMPLES: 22/Aqueous/VOC

SA-DUP07-20100922	SA-MW-131D-20100921	SA-MW-131I-20100921
SA-MW-131S-20100921	SA-PZ-118I-20100920	SA-PZ-118S-20100920
SA-PZ-123I-20100920	SA-PZ-123I1-20100920	SA-PZ-123S-20100920
SA-PZ-124-20100922	SA-PZ-125-20100922	SA-PZ-145D-20100921
SA-PZ-145I-20100921	SA-PZ-145S-20100921	SA-PZ-147-20100922
SA-PZ-148-20100922	SA-SW-124-20100922	SA-SW-125-20100922
SA-SW-201-20100922	SA-SW-204-20100922	
SA-SW-DUP01-20100922	TB04-20100922	

11/Aqueous/OVG

SA-MW-131D-20100921	SA-MW-131I-20100921	SA-MW-131S-20100921
SA-PZ-118I-20100920	SA-PZ-118S-20100920	SA-PZ-123I-20100920
SA-PZ-123I1-20100920	SA-PZ-123S-20100920	SA-PZ-145D-20100921
SA-PZ-145I-20100921	SA-PZ-145S-20100921	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1009221 consists of twenty one (21) environmental aqueous samples and one (1) trip blank analyzed for select volatile organic compounds (VOC). Eleven (11) aqueous environmental samples were analyzed for Organic Volatile Gases (OVG). There are three (3) field duplicate pairs within this SDG: SA-SW-124-20100922/SA-SW-DUP01-20100922, SA-PZ-148-20100922/SA-DUP07-20100922 and SA-PZ-123I1-20100920/SA-DUP04-20100920. Sample SA-DUP04-20100920 is contained in SDG 1009207.

The samples were collected on September 20, 21 and 22, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B and OVG EPA method RSK-175 analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial/continuing calibrations
	• Laboratory Method Blank Results
	• Surrogate Recoveries
*	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
	• Field Duplicate Precision
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

The following contaminants were detected in the laboratory method blanks at the following maximum concentrations:

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
1,2,4-Trichlorobenzene [2]	0.62	3.1
Methylene chloride [1]	3.6	36.0
Methylene chloride [2]	1.9	19.0
Toluene [1]	0.61	3.05
Toluene [2]	0.47	2.35

(1) Contaminants associated with laboratory blank VBLKBB affecting samples SA-PZ-118I-20100920, SA-PZ-123I-20100920, SA-PZ-118S-20100920, SA-PZ-123I1-20100920, SA-PZ-123S-20100920, SA-MW-131D-20100921, SA-MW-131I-20100921, SA-MW-131S-20100921, SA-PZ-145D-20100921, SA-PZ-145S-20100921, SA-PZ-145I-20100921, SA-SW-204-20100922, SA-PZ-124-20100922 and SA-SW-125-20100922.

(2) Contaminants associated with laboratory blank VBLKHV affecting samples SA-PZ-147-20100922, SA-PZ-148-20100922, SA-DUP07-20100922, SA-SW-124-20100922, SA-SW-125-20100922, SA-SW-201-20100922 and SA-SW-DUP01-20100922.

An action level of 5X the maximum concentration of 1,2,3-trichlorobenzene and toluene were established in order to evaluate the affected samples for laboratory method blank contamination. An action level of 10X the maximum concentration of common laboratory contaminant, methylene chloride, was established in order to evaluate samples for blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. Positive results in the affected samples less than the reporting limit and action level were raised to the reporting limit and qualified as (U).

The trip blank TB04-20100922 contained toluene and 1,2,4-trichlorobenzene. Field quality control samples are not qualified due to laboratory blank contamination.

The percent recovery (%R) of surrogate toluene-d8 was slightly less than the lower quality control limit in samples SA-PZ-118I-20100920, SA-PZ-123I-20100920, SA-PZ-118S-20100920, SA-PZ-123I1-20100920, SA-PZ-123S-20100920, SA-MW-131D-20100921, SA-MW-131I-20100921, SA-MW-131S-20100921, SA-PZ-145D-20100921, SA-PZ-145S-20100921, SA-PZ-145I-20100921 and SA-SW-204-20100922. The positive and nondetected results in the affected samples were qualified as estimated (J) and (UJ), respectively.

Field duplicate imprecision was noted in the field duplicate pair SA-PZ-123I1-20100920 and SA-DUP04-20100920. The relative percent difference (RPD) exceeded the 30% quality control limit for methylene chloride. The positive and nondetected methylene chloride results in samples SA-PZ-123I1-20100920 and SA-DUP04-20100920 were qualified as estimated (J) and (UJ), respectively.

Organic Volatile Gases

Samples SA-MW-131D-20100921 and SA-PZ-118S-20100920 required dilutions because of methane concentrations greater than the linear calibration range of the instrument. Only the methane results are reported from the sample dilution. The ethane and ethene results are reported from the undiluted runs.

Additional Comments

The sample identifications for samples SA-PZ-124-20100922, SA-PZ-125-20100922, SA-SW-124-20100922 and SA-SW-125-20100922 were incorrectly marked by the sampling crew on the chain of custody. The sample identification locations were flip-flopped (SA-PZ-124-20100922 should be SA-PZ-125-20100922 and SA-SW-124-20100922 should be SA-SW-125-20100922). A copy of the project manager's email alerting personnel to this correction is included in Appendix D.

Positive results below the limit of quantitation (LOQ) and above the detection limit (DL) were qualified as estimated, (J), due to uncertainty near the detection limit. Nondetected results were reported to the LOQ.

EXECUTIVE SUMMARY

Laboratory Performance Issues: 1,2,4-Trichlorobenzene, methylene chloride and toluene were detected in a laboratory method blank resulting in the qualification of data. The percent recovery of surrogate toluene-d8 was less than the lower quality control limit in several samples.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted in the SA-PZ-123I1-20100920 and SA-DUP04-20100920 for methylene chloride. Trip blank contained toluene and 1,2,4-trichlorobenzene.

The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, October 2006, USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-DUP07-20100922			SA-MW-131D-20100921			SA-MW-131I-20100921			SA-MW-131S-20100921		
SDG: 1009221	LAB_ID	1009221-18			1009221-06			1009221-07			1009221-08		
FRACTION: OV	SAMP_DATE	9/22/2010			9/21/2010			9/21/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-148-20100922											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	UJ	R	18	J	R	5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,1,2-TRICHLOROETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,1-DICHLOROETHANE		5	U		13	J	R	130	J	R	5	U	
1,1-DICHLOROETHENE		5	U		2.3	J	PR	13	J	R	5	U	
1,1-DICHLOROPROPENE		5	U		5	UJ	R	5	UJ	R	5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,2-DIBROMOETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,2-DICHLOROBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
1,2-DICHLOROETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,2-DICHLOROPROPANE		5	U		5	UJ	R	5	UJ	R	5	U	
1,3-DICHLOROBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
1,4-DICHLOROBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
2-BUTANONE		13	U		13	UJ	R	13	UJ	R	13	U	
2-HEXANONE		13	U		13	UJ	R	13	UJ	R	13	U	
4-METHYL-2-PENTANONE		13	U		13	UJ	R	13	UJ	R	13	U	
ACETONE		13	U		3.1	J	PR	13	UJ	R	13	U	
BENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
BROMODICHLOROMETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
BROMOFORM		5	U		5	UJ	R	5	UJ	R	5	U	
BROMOMETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
CARBON DISULFIDE		5	U		5	UJ	R	5	UJ	R	5	U	
CARBON TETRACHLORIDE		5	U		5	UJ	R	5	UJ	R	5	U	
CHLOROBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
CHLORODIBROMOMETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
CHLOROETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
CHLOROFORM		5	U		5	UJ	R	5	UJ	R	5	U	
CHLOROMETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	UJ	R	5	UJ	R	5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	UJ	R	5	UJ	R	5	U	
CYCLOHEXANE		5	U		5	UJ	R	5	UJ	R	5	U	
DICHLORODIFLUOROMETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
ETHYLBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	
ISOPROPYLBENZENE		5	U		5	UJ	R	5	UJ	R	5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-118I-20100920			SA-PZ-118S-20100920			SA-PZ-123I1-20100920			SA-PZ-123I-20100920		
SDG: 1009221	LAB_ID	1009221-01			1009221-03			1009221-04			1009221-02		
FRACTION: OV	SAMP_DATE	9/20/2010			9/20/2010			9/20/2010			9/20/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	0.59	J	PR
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	42	J	R
1,1-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	6.9	J	R
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	0.66	J	PR
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-PZ-123S-20100920			SA-PZ-124-20100922			SA-PZ-125-20100922			SA-PZ-145D-20100921		
SDG: 1009221	LAB_ID	1009221-05			1009221-15			1009221-14			1009221-09		
FRACTION: OV	SAMP_DATE	9/20/2010			9/22/2010			9/22/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	UJ	R	22			5	U		19		
1,1-DICHLOROETHENE		5	UJ	R	5.2			5	U		2	J	P
1,1-DICHLOROPROPENE		5	UJ	R	5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	UJ	R	5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	UJ	R	5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
2-BUTANONE		13	UJ	R	13	U		13	U		13	U	
2-HEXANONE		13	UJ	R	13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	UJ	R	13	U		13	U		13	U	
ACETONE		13	UJ	R	13	U		13	U		13	U	
BENZENE		5	UJ	R	5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	UJ	R	5	U		5	U		5	U	
BROMOFORM		5	UJ	R	5	U		5	U		5	U	
BROMOMETHANE		5	UJ	R	5	U		5	U		5	U	
CARBON DISULFIDE		5	UJ	R	5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	UJ	R	5	U		5	U		5	U	
CHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	UJ	R	5	U		5	U		5	U	
CHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
CHLOROFORM		1.3	J	PR	5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	R	5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	U		5	U		5	U	
CYCLOHEXANE		5	UJ	R	5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	UJ	R	5	U		5	U		5	U	
ETHYLBENZENE		5	UJ	R	5	U		5	U		5	U	
ISOPROPYLBENZENE		5	UJ	R	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-145I-20100921			SA-PZ-145S-20100921			SA-PZ-147-20100922			SA-PZ-148-20100922		
SDG: 1009221	LAB_ID	1009221-11			1009221-10			1009221-16			1009221-17		
FRACTION: OV	SAMP_DATE	9/21/2010			9/21/2010			9/22/2010			9/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	6.1			5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	66			5	U		4.4	J	P	5	U	
1,1-DICHLOROETHENE	8.4			5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	1.1	J	P	5	U		5	U	A	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	U		13	U		13	U		13	U	
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	4.5	J	P	5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-124-20100922			SA-SW-125-20100922			SA-SW-201-20100922			SA-SW-204-20100922		
SDG: 1009221	LAB_ID	1009221-20			1009221-19			1009221-21			1009221-12		
FRACTION: OV	SAMP_DATE	9/22/2010			9/22/2010			9/22/2010			9/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		0.46	J	P	5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		4.2	J	P	13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-DUP01-20100922			TB04-20100922		
SDG: 1009221	LAB_ID	1009221-22			1009221-13		
FRACTION: OV	SAMP_DATE	9/22/2010			9/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	SA-SW-124-20100922					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U	
1,1-DICHLOROETHANE		0.56	J	P	5	U	
1,1-DICHLOROETHENE		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		0.51	J	P
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U	
2-BUTANONE		13	U		13	U	
2-HEXANONE		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U	
ACETONE		3.5	J	P	13	U	
BENZENE		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U	
BROMOFORM		5	U		5	U	
BROMOMETHANE		5	U		5	U	
CARBON DISULFIDE		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U	
CHLOROBENZENE		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U	
CHLOROETHANE		5	U		5	U	
CHLOROFORM		5	U		5	U	
CHLOROMETHANE		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U	
CYCLOHEXANE		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U	
ETHYLBENZENE		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-DUP07-20100922			SA-MW-131D-20100921			SA-MW-131I-20100921			SA-MW-131S-20100921		
SDG: 1009221	LAB_ID	1009221-18			1009221-06			1009221-07			1009221-08		
FRACTION: OV	SAMP_DATE	9/22/2010			9/21/2010			9/21/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-148-20100922											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	UJ	R	10	UJ	R	10	U	
METHYL ACETATE		5	U		5	UJ	R	5	UJ	R	5	U	
METHYL CYCLOHEXANE		5	U		5	UJ	R	5	UJ	R	5	U	
METHYL TERT-BUTYL ETHER		5	U		5	UJ	R	5	UJ	R	5	U	
METHYLENE CHLORIDE		5	U	A	5	UJ	R	5	UJ	R	5	U	
NAPHTHALENE		5	U		5	UJ	R	5	UJ	R	5	U	
O-XYLENE		5	U		5	UJ	R	5	UJ	R	5	U	
STYRENE		5	U		5	UJ	R	5	UJ	R	5	U	
TETRACHLOROETHENE		5	U		5	UJ	R	5	UJ	R	5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	UJ	R	5	UJ	R	5	U	
TOTAL XYLENES		5	U		5	UJ	R	5	UJ	R	5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	UJ	R	5	UJ	R	5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	UJ	R	5	UJ	R	5	U	
TRICHLOROETHENE		5	U		5	UJ	R	5	UJ	R	5	U	
TRICHLOROFLUOROMETHANE		5	U		5	UJ	R	5	UJ	R	5	U	
VINYL CHLORIDE		5	U		5	UJ	R	5	UJ	R	5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-118I-20100920			SA-PZ-118S-20100920			SA-PZ-123I1-20100920			SA-PZ-123I-20100920		
SDG: 1009221	LAB_ID	1009221-01			1009221-03			1009221-04			1009221-02		
FRACTION: OV	SAMP_DATE	9/20/2010			9/20/2010			9/20/2010			9/20/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	GR	5	UJ	R
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-PZ-123S-20100920			SA-PZ-124-20100922			SA-PZ-125-20100922			SA-PZ-145D-20100921		
SDG: 1009221	LAB_ID	1009221-05			1009221-15			1009221-14			1009221-09		
FRACTION: OV	SAMP_DATE	9/20/2010			9/22/2010			9/22/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	U		10	U		10	U	
METHYL ACETATE		5	UJ	R	5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	UJ	R	5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	UJ	R	5	U		5	U		5	U	
METHYLENE CHLORIDE		5	UJ	R	5	U		5	U		5	U	
NAPHTHALENE		5	UJ	R	5	U		5	U		5	U	
O-XYLENE		5	UJ	R	5	U		5	U		5	U	
STYRENE		5	UJ	R	5	U		5	U		5	U	
TETRACHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TOTAL XYLENES		5	UJ	R	5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	U		5	U		5	U	
TRICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	UJ	R	5	U		5	U		5	U	
VINYL CHLORIDE		5	UJ	R	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-PZ-145I-20100921			SA-PZ-145S-20100921			SA-PZ-147-20100922			SA-PZ-148-20100922		
SDG: 1009221	LAB_ID	1009221-11			1009221-10			1009221-16			1009221-17		
FRACTION: OV	SAMP_DATE	9/21/2010			9/21/2010			9/22/2010			9/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U	A	5	U	A
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U		5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-124-20100922			SA-SW-125-20100922			SA-SW-201-20100922			SA-SW-204-20100922		
SDG: 1009221	LAB_ID	1009221-20			1009221-19			1009221-21			1009221-12		
FRACTION: OV	SAMP_DATE	9/22/2010			9/22/2010			9/22/2010			9/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U	A	5	U	A	5	U	A	5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-DUP01-20100922			TB04-20100922		
SDG: 1009221	LAB_ID	1009221-22			1009221-13		
FRACTION: OV	SAMP_DATE	9/22/2010			9/22/2010		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	SA-SW-124-20100922					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U	
METHYL ACETATE		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U	
METHYLENE CHLORIDE		5	U	A	5	U	
NAPHTHALENE		5	U		5	U	
O-XYLENE		5	U		5	U	
STYRENE		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U	
TOLUENE		5	U	A	0.8	J	P
TOTAL 1,2-DICHLOROETHENE		5	U		5	U	
TOTAL XYLENES		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U	
TRICHLOROETHENE		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U	
VINYL CHLORIDE		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-MW-131D-20100921			SA-MW-131D-20100921DL			SA-MW-131I-20100921			SA-MW-131S-20100921		
SDG: 1009221	LAB_ID	1009221-06			1009221-06RE1			1009221-07			1009221-08		
FRACTION: OVG	SAMP_DATE	9/21/2010			9/21/2010			9/21/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U					1.1	U		1.1	U	
ETHENE		1	U					1	U		1	U	
METHANE					29			54			4.2		

PROJ_NO: 01655	NSAMPLE	SA-PZ-118I-20100920			SA-PZ-118S-20100920			SA-PZ-118S-20100920DL			SA-PZ-123I1-20100920		
SDG: 1009221	LAB_ID	1009221-01			1009221-03			1009221-03RE1			1009221-04		
FRACTION: OVG	SAMP_DATE	9/20/2010			9/20/2010			9/20/2010			9/20/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U		1.1	U					1.1	U	
ETHENE		1	U		1	U					1	U	
METHANE		0.58	U					150			1.8		

PROJ_NO: 01655	NSAMPLE	SA-PZ-123I-20100920			SA-PZ-123S-20100920			SA-PZ-145D-20100921			SA-PZ-145I-20100921		
SDG: 1009221	LAB_ID	1009221-02			1009221-05			1009221-09			1009221-11		
FRACTION: OVG	SAMP_DATE	9/20/2010			9/20/2010			9/21/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U		1.1	U		1.1	U		1.1	U	
ETHENE		1	U		1	U		1	U		1	U	
METHANE		18			50			0.47	J	P	5.6		

PROJ_NO: 01655	NSAMPLE	SA-PZ-145S-20100921		
SDG: 1009221	LAB_ID	1009221-10		
FRACTION: OVG	SAMP_DATE	9/21/2010		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
ETHANE		1.1	U	
ETHENE		1	U	
METHANE		7.6		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** NOVEMBER 11, 2010

FROM: EDWARD SEDLMYER **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC
NWIRP CALVERTON CTO 160
SDG 1009207

SAMPLES: 21 / Aqueous / VOC

ET-MW-01S-20100916	ET-MW-02S-20100916	ET-MW-03S-20100916
SA-DUP03-20100916	SA-DUP04-20100920	SA-DUP05-20100921
SA-DUP06-20100921	SA-FB01-20100921	SA-MW-128I-20100917
SA-MW-129I-20100917	SA-MW-129S-20100917	SA-MW-132I-20100921
SA-MW-132S-20100921	SA-PZ-120S-20100920	SA-PZ-122D-20100920
SA-PZ-122I-20100920	SA-PZ-122S-20100920	SA-PZ-140-20100921
SA-PZ-143-20100920	SA-PZ-166I-20100917	TB03-20100920

Overview

The sample set for NWIRP Calverton, SDG 1009207 consists of nineteen (19) aqueous environmental samples, one (1) field blank, and one (1) trip blank. The aqueous samples were analyzed for volatile organic compounds (VOC). There were four field duplicate pairs associated with this sample data group (SDG); SA-MW-127I-20100916 / SA-DUP03-20100916, SA-PZ-123I1-20100920 / SA-DUP04-20100920, SA-PZ-140-20100921 / SA-DUP05-20100921, and SA-PZ-145I-20100921 / SA-DUP06-20100921. Samples SA-PZ-123I1-20100920 and SA-PZ-145I-20100921 are included in SDG 1009221 and sample SA-MW-127I-20100916 is included in SDG 1009183.

The samples were collected by Tetra Tech on September 16, 17, 20, and 21, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial/continuing calibrations
*	• GC/MS Tuning
	• Laboratory Method Blank Results
	• Surrogate Recoveries
*	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
	• Field Duplicate Precision
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is

presented in Appendix D.

Volatile Organic Compounds

A contaminant was detected in laboratory method blank VBLKBB at the following maximum concentrations:

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Methylene chloride	3.6	18
Toluene	0.61	3.05

An action level of 10X the maximum contaminant concentration of methylene chloride; 5X for toluene, was established to evaluate the affected samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. The positive toluene results less than the reporting limit and less than the action level in samples SA-PZ-140-20100921, SA-DUP05-20100921, and SA-DUP06-20100921 were raised to the reporting limit and qualified as (U).

The surrogate Toluene-d8 had percent recoveries less than the quality control limits in all aqueous samples except SA-PZ-140-20100921. The positive and nondetected results for all samples except SA-PZ-140-20100921 have been qualified as estimated (J) and (UJ), respectively.

The field duplicate precision exceeded the 30% relative percent difference (RPD) quality control criterion for methylene chloride in the field duplicate pair SA-PZ-123I1-20100920 / SA-DUP04-20100920. The positive and nondetected results for methylene chloride in samples SA-PZ-123I1-20100920 and SA-DUP04-20100920 were qualified as estimated (J) and (UJ), respectively.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the detection limit (DL) were qualified as estimated, (J), due to uncertainty near the detection limit.

Sample SA-PZ-143-20100920 required a dilution due to high VOC concentrations detected during sample screening. The sample was not analyzed undiluted. This accounts for the elevated reporting limits for the nondetected compounds.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Toluene and methylene chloride were detected in a laboratory method blank. The surrogate toluene-d8 had low recoveries in all samples except one.

Other Factors Affecting Data Quality: Field duplicate imprecision resulted in the qualification of methylene chloride in one field duplicate pair.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

Edward Sedlmyer

TetraTech NUS
Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	ET-MW-01S-20100916			ET-MW-02S-20100916			ET-MW-03S-20100916			SA-DUP03-20100916		
SDG: 1009207	LAB_ID	1009207-03			1009207-02			1009207-01			1009207-04		
FRACTION: OV	SAMP_DATE	9/16/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-MW-127I-20100916		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	2.4	J	PR	5	UJ	R	1.1	J	PR
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	9.3	J	R
1,1-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		0.55	J	PR	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		0.83	J	PR	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-DUP04-20100920			SA-DUP05-20100921			SA-DUP06-20100921			SA-FB01-20100921		
SDG: 1009207	LAB_ID	1009207-15			1009207-20			1009207-21			1009207-18		
FRACTION: OV	SAMP_DATE	9/20/2010			9/21/2010			9/21/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-123I1-20100920			SA-PZ-140-20100921			SA-PZ-145I-20100921					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	10	J	R	5.9	J	R	5	UJ	R
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		5	UJ	R	100	J	R	69	J	R	5	UJ	R
1,1-DICHLOROETHENE		5	UJ	R	7.8	J	R	8.7	J	R	5	UJ	R
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	1.4	J	PR	1.3	J	PR	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	0.47	J	PR	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	0.5	J	PR	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	2.1	J	PR	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	15	J	R	4.1	J	PR	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-MW-128I-20100917			SA-MW-129I-20100917			SA-MW-129S-20100917			SA-MW-132I-20100921		
SDG: 1009207	LAB_ID	1009207-05			1009207-06			1009207-07			1009207-17		
FRACTION: OV	SAMP_DATE	9/17/2010			9/17/2010			9/17/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		1.1	J	PR	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		10	J	R	1.4	J	PR	5	UJ	R	3.4	J	PR
1,1-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-MW-132S-20100921			SA-PZ-120S-20100920			SA-PZ-122D-20100920			SA-PZ-122I-20100920		
SDG: 1009207	LAB_ID	1009207-16			1009207-12			1009207-11			1009207-13		
FRACTION: OV	SAMP_DATE	9/21/2010			9/20/2010			9/20/2010			9/20/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		1.1	J	PR	5	UJ	R	1.3	J	PR	9.7	J	R
1,1-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	1.2	J	PR
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-PZ-122S-20100920			SA-PZ-140-20100921			SA-PZ-143-20100920			SA-PZ-166I-20100917		
SDG: 1009207	LAB_ID	1009207-10			1009207-19			1009207-14			1009207-08		
FRACTION: OV	SAMP_DATE	9/20/2010			9/21/2010			9/20/2010			9/17/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	UJ	R	9			110			5	UJ	R
1,1,2,2-TETRACHLOROETHANE	5	UJ	R	5	U		25	U		5	UJ	R
1,1,2-TRICHLOROETHANE	5	UJ	R	5	U		25	U		5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE	5	UJ	R	5	U		25	U		5	UJ	R
1,1-DICHLOROETHANE	5	UJ	R	93			600			5	UJ	R
1,1-DICHLOROETHENE	5	UJ	R	6.7			52			5	UJ	R
1,1-DICHLOROPROPENE	5	UJ	R	5	U		25	U		5	UJ	R
1,2,4-TRICHLOROBENZENE	5	UJ	R	1.9	J	P	7.1	J	P	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE	5	UJ	R	5	U		25	U		5	UJ	R
1,2-DIBROMOETHANE	5	UJ	R	5	U		25	U		5	UJ	R
1,2-DICHLOROBENZENE	5	UJ	R	0.64	J	P	25	U		5	UJ	R
1,2-DICHLOROETHANE	5	UJ	R	5	U		25	U		5	UJ	R
1,2-DICHLOROPROPANE	5	UJ	R	5	U		25	U		5	UJ	R
1,3-DICHLOROBENZENE	5	UJ	R	0.62	J	P	25	U		5	UJ	R
1,4-DICHLOROBENZENE	5	UJ	R	2.2	J	P	25	U		5	UJ	R
2-BUTANONE	13	UJ	R	13	U		63	U		13	UJ	R
2-HEXANONE	13	UJ	R	13	U		63	U		13	UJ	R
4-METHYL-2-PENTANONE	13	UJ	R	13	U		63	U		13	UJ	R
ACETONE	13	UJ	R	13	U		63	U		13	UJ	R
BENZENE	5	UJ	R	5	U		25	U		5	UJ	R
BROMODICHLOROMETHANE	5	UJ	R	5	U		25	U		5	UJ	R
BROMOFORM	5	UJ	R	5	U		25	U		5	UJ	R
BROMOMETHANE	5	UJ	R	5	U		25	U		5	UJ	R
CARBON DISULFIDE	5	UJ	R	5	U		25	U		5	UJ	R
CARBON TETRACHLORIDE	5	UJ	R	5	U		25	U		5	UJ	R
CHLOROBENZENE	5	UJ	R	5	U		25	U		5	UJ	R
CHLORODIBROMOMETHANE	5	UJ	R	5	U		25	U		5	UJ	R
CHLOROETHANE	5	UJ	R	14			25	U		5	UJ	R
CHLOROFORM	5	UJ	R	5	U		25	U		5	UJ	R
CHLOROMETHANE	5	UJ	R	5	U		25	U		5	UJ	R
CIS-1,2-DICHLOROETHENE	5	UJ	R	5	U		25	U		5	UJ	R
CIS-1,3-DICHLOROPROPENE	5	UJ	R	5	U		25	U		5	UJ	R
CYCLOHEXANE	5	UJ	R	5	U		25	U		5	UJ	R
DICHLORODIFLUOROMETHANE	5	UJ	R	5	U		25	U		5	UJ	R
ETHYLBENZENE	5	UJ	R	5	U		25	U		5	UJ	R
ISOPROPYLBENZENE	5	UJ	R	5	U		25	U		5	UJ	R

PROJ_NO: 01655	NSAMPLE	TB03-20100920
SDG: 1009207	LAB_ID	1009207-09
FRACTION: OV	SAMP_DATE	9/20/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	UJ	R
1,1,2,2-TETRACHLOROETHANE	5	UJ	R
1,1,2-TRICHLOROETHANE	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE	5	UJ	R
1,1-DICHLOROETHANE	5	UJ	R
1,1-DICHLOROETHENE	5	UJ	R
1,1-DICHLOROPROPENE	5	UJ	R
1,2,4-TRICHLOROBENZENE	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE	5	UJ	R
1,2-DIBROMOETHANE	5	UJ	R
1,2-DICHLOROBENZENE	5	UJ	R
1,2-DICHLOROETHANE	5	UJ	R
1,2-DICHLOROPROPANE	5	UJ	R
1,3-DICHLOROBENZENE	5	UJ	R
1,4-DICHLOROBENZENE	5	UJ	R
2-BUTANONE	13	UJ	R
2-HEXANONE	13	UJ	R
4-METHYL-2-PENTANONE	13	UJ	R
ACETONE	13	UJ	R
BENZENE	5	UJ	R
BROMODICHLOROMETHANE	5	UJ	R
BROMOFORM	5	UJ	R
BROMOMETHANE	5	UJ	R
CARBON DISULFIDE	5	UJ	R
CARBON TETRACHLORIDE	5	UJ	R
CHLOROBENZENE	5	UJ	R
CHLORODIBROMOMETHANE	5	UJ	R
CHLOROETHANE	5	UJ	R
CHLOROFORM	5	UJ	R
CHLOROMETHANE	5	UJ	R
CIS-1,2-DICHLOROETHENE	5	UJ	R
CIS-1,3-DICHLOROPROPENE	5	UJ	R
CYCLOHEXANE	5	UJ	R
DICHLORODIFLUOROMETHANE	5	UJ	R
ETHYLBENZENE	5	UJ	R
ISOPROPYLBENZENE	5	UJ	R

PROJ_NO: 01655	NSAMPLE	ET-MW-01S-20100916			ET-MW-02S-20100916			ET-MW-03S-20100916			SA-DUP03-20100916		
SDG: 1009207	LAB_ID	1009207-03			1009207-02			1009207-01			1009207-04		
FRACTION: OV	SAMP_DATE	9/16/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-MW-127I-20100916		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		1.4	J	PR	1.4	J	PR	1.1	J	PR	1.4	J	PR
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		0.68	J	PR	0.62	J	PR	0.68	J	PR	0.69	J	PR
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-DUP04-20100920			SA-DUP05-20100921			SA-DUP06-20100921			SA-FB01-20100921		
SDG: 1009207	LAB_ID	1009207-15			1009207-20			1009207-21			1009207-18		
FRACTION: OV	SAMP_DATE	9/20/2010			9/21/2010			9/21/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	SA-PZ-123I1-20100920			SA-PZ-140-20100921			SA-PZ-145I-20100921					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		21	J	GR	5	UJ	R	5	UJ	R	5	UJ	R
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		0.45	J	PR	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-MW-128I-20100917			SA-MW-129I-20100917			SA-MW-129S-20100917			SA-MW-132I-20100921		
SDG: 1009207	LAB_ID	1009207-05			1009207-06			1009207-07			1009207-17		
FRACTION: OV	SAMP_DATE	9/17/2010			9/17/2010			9/17/2010			9/21/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		1.7	J	PR	2.8	J	PR	3.2	J	PR	49	J	R
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		0.65	J	PR	0.61	J	PR	0.69	J	PR	5	UJ	R
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-MW-132S-20100921			SA-PZ-120S-20100920			SA-PZ-122D-20100920			SA-PZ-122I-20100920		
SDG: 1009207	LAB_ID	1009207-16			1009207-12			1009207-11			1009207-13		
FRACTION: OV	SAMP_DATE	9/21/2010			9/20/2010			9/20/2010			9/20/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		25	J	R	11	J	R	10	J	R	11	J	R
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		0.45	J	PR	0.49	J	PR	0.39	J	PR	0.51	J	PR
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-PZ-122S-20100920			SA-PZ-140-20100921			SA-PZ-143-20100920			SA-PZ-166I-20100917		
SDG: 1009207	LAB_ID	1009207-10			1009207-19			1009207-14			1009207-08		
FRACTION: OV	SAMP_DATE	9/20/2010			9/21/2010			9/20/2010			9/17/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	U		50	U		10	UJ	R
METHYL ACETATE		5	UJ	R	5	U		25	U		5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	U		25	U		5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	U		25	U		5	UJ	R
METHYLENE CHLORIDE		5.3	J	R	5	U		130			2.7	J	PR
NAPHTHALENE		5	UJ	R	5	U		25	U		5	UJ	R
O-XYLENE		5	UJ	R	5	U		25	U		5	UJ	R
STYRENE		5	UJ	R	5	U		25	U		5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	U		25	U		5	UJ	R
TOLUENE		0.68	J	PR	5	U	A	2.3	J	P	0.64	J	PR
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	U		25	U		5	UJ	R
TOTAL XYLENES		5	UJ	R	5	U		25	U		5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	U		25	U		5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	U		25	U		5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	U		25	U		5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	U		25	U		5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	U		25	U		5	UJ	R

PROJ_NO: 01655	NSAMPLE	TB03-20100920
SDG: 1009207	LAB_ID	1009207-09
FRACTION: OV	SAMP_DATE	9/20/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
M+P-XYLENES	10	UJ	R
METHYL ACETATE	5	UJ	R
METHYL CYCLOHEXANE	5	UJ	R
METHYL TERT-BUTYL ETHER	5	UJ	R
METHYLENE CHLORIDE	4.8	J	PR
NAPHTHALENE	5	UJ	R
O-XYLENE	5	UJ	R
STYRENE	5	UJ	R
TETRACHLOROETHENE	5	UJ	R
TOLUENE	5	UJ	R
TOTAL 1,2-DICHLOROETHENE	5	UJ	R
TOTAL XYLENES	5	UJ	R
TRANS-1,2-DICHLOROETHENE	5	UJ	R
TRANS-1,3-DICHLOROPROPENE	5	UJ	R
TRICHLOROETHENE	5	UJ	R
TRICHLOROFLUOROMETHANE	5	UJ	R
VINYL CHLORIDE	5	UJ	R

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: R. SOK **DATE:** OCTOBER 18, 2010

FROM: EDWARD SEDLMYER **COPIES:** DV FILE

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SDG 1009183

SAMPLES: 21 / Aqueous / VOC / OVG

FC-DUP02-20100915	FC-MW-03S-20100915	FC-MW-05I-20100915
FC-MW-05S-20100915	FC-MW-06S-20100915	FC-MW-07I-20100915
FC-MW-07S-20100915	FC-MW-08S-20100915	RB01-20100915
SA-MW-126D-20100916	SA-MW-126I-20100916	SA-MW-126S-20100916
SA-MW-127D-20100916	SA-MW-127I-20100916	SA-MW-127S-20100916
SA-MW-128D-20100916	SA-MW-128S-20100916	SA-MW-129D-20100916
SA-MW-130I-20100916	SA-MW-130S-20100916	TB02-20100915

Overview

The sample set for NWIRP Calverton, SDG 1009183 consists of nineteen (19) aqueous environmental samples, one (1) rinse blank, and one (1) trip blank. All samples were analyzed for volatile organic compounds (VOC). Samples FC-MW-03S-20100915, FC-MW-05I-20100915, FC-MW-05S-20100915, SA-MW-127D-20100916, SA-MW-127I-20100916, and SA-MW-127S-20100916 were analyzed for dissolved gases. There were two field duplicate pairs associated with this sample data group (SDG); SA-MW-127I-20100916 / SA-DUP03-20100916 and FC-MW-02S-20100915 / FC-DUP02-20100915. SA-DUP03-20100916 is included in SDG 1009207 and FC-MW-02S-20100915 is included in SDG 1009182.

The samples were collected by Tetra Tech on September 15 and 16, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B and EPA method RSK-175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
	• Initial/continuing calibrations
*	• GC/MS Tuning
	• Laboratory Method Blank Results
	• Surrogate Recoveries
*	• Matrix Spike / Matrix Spike Duplicate Recoveries
*	• Laboratory Control Sample Recoveries
	• Field Duplicate Precision
*	• Internal Standard Recoveries
*	• Compound Quantitation
*	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is

presented in Appendix D.

Volatile Organic Compounds

The following contaminants were detected in the laboratory method blanks at the following maximum concentrations:

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
1,2,4-Trichlorobenzene[1]	1.2	6.0
Naphthalene[1]	3.5	17.5
Toluene[2]	0.32	1.6

1 - Contaminants present in method blank VBLKHQ.
2 - Contaminants present in method blank VBLKHT.

An action level of 5X for 1,2,4-trichlorobenzene, naphthalene, and toluene, was established to evaluate the affected samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. The positive naphthalene result greater than the reporting limit and greater than the action level in sample FC-MW-03S-20100915 was qualified as (U).

An initial calibration and continuing calibration relative response factor (RRF) was less than the 0.05 quality control limit for acetone on instrument "5972HP59", on 09/25/10 and 09/26/10. The positive and non-detected results for acetone were qualified (J) and (UR), respectively, in samples FC-MW-08S-20100915, FC-MW-07I-20100915, FC-MW-07S-20100915, FC-DUP02-20100915, SA-MW-126I-20100916, SA-MW-126S-20100916, TB02-20100915, FC-MW-03S-20100915, SA-MW-126D-20100916, and FC-MW-06S-20100915.

The surrogate Toluene-d8 had percent recoveries less than the quality control limits in samples FC-MW-05I-20100915, FC-MW-05S-20100915, RB01-20100915, SA-MW-127D-20100916, SA-MW-127I-20100916, SA-MW-127S-20100916, SA-MW-128D-20100916, SA-MW-128S-20100916, SA-MW-129D-20100916, SA-MW-130I-20100916, and SA-MW-130S-20100916. The positive and nondetected results for the aforementioned samples have been qualified as estimated (J) and (UJ), respectively.

The field duplicate precision exceeded the 30% relative percent difference (RPD) quality control criterion for 2-butanone, methylene chloride, m&p-xylenes, o-xylene, and total xylenes in the field duplicate pair FC-MW-02S-20100915 / FC-DUP02-20100915. The positive and nondetected results for 2-butanone, methylene chloride, m&p-xylenes, o-xylene, and total xylenes in samples FC-MW-02S-20100915 / FC-DUP02-20100915 were qualified as estimated (J) and (UJ), respectively.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the detection limit (DL) were qualified as estimated, (J), due to uncertainty near the detection limit.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample SA-MW-126I-20100916 had a percent recovery less than the quality control limit for styrene in the MSD. No action was taken on this basis because the MS had an acceptable recovery.

EXECUTIVE SUMMARY

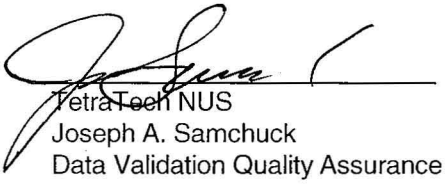
Laboratory Performance Issues: Toluene, naphthalene, and 1,2,4-trichlorobenzene were detected in a laboratory method blank. The surrogate toluene-d8 had low recoveries in several samples.

Other Factors Affecting Data Quality: Field duplicate imprecision resulted in the qualification of 2-butanone, methylene chloride, m&p-xylenes, o-xylene, and total xylenes in one field duplicate pair.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

TetraTech NUS
Edward Sedlmyer
Chemist/Data Validator



TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	FC-DUP02-20100915			FC-MW-03S-20100915			FC-MW-05I-20100915			FC-MW-05S-20100915		
SDG: 1009183	LAB_ID	1009183-04			1009183-09			1009183-10			1009183-12		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	FC-MW-02S-20100915											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	UJ	R	5	UJ	R
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	U		5	U		5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		11			1.3	J	P	0.5	J	PR	0.89	J	PR
1,1-DICHLOROETHENE		5	U		5	U		5	UJ	R	5	UJ	R
1,1-DICHLOROPROPENE		5	U		5	U		5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	U		5	U		0.71	J	PR	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	U		5	U		5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		1.4	J	P	1.8	J	P	5	UJ	R	0.98	J	PR
1,2-DICHLOROETHANE		5	U		5	U		5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	U		5	U		5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	U		5	U		5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	U		5	U		5	UJ	R	5	UJ	R
2-BUTANONE		33	J	G	13	U		13	UJ	R	13	UJ	R
2-HEXANONE		13	U		13	U		13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	U		13	U		13	UJ	R	13	UJ	R
ACETONE		13	UR	C	13	UR	C	13	UJ	R	13	UJ	R
BENZENE		5	U		5	U		5	UJ	R	0.84	J	PR
BROMODICHLOROMETHANE		5	U		5	U		5	UJ	R	5	UJ	R
BROMOFORM		5	U		5	U		5	UJ	R	5	UJ	R
BROMOMETHANE		5	U		5	U		5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	U		5	U		5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	U		5	U		5	UJ	R	5	UJ	R
CHLOROBENZENE		5	U		5	U		5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	U		5	U		5	UJ	R	5	UJ	R
CHLOROETHANE		5	U		5	U		5	UJ	R	5	UJ	R
CHLOROFORM		5	U		5	U		5	UJ	R	5	UJ	R
CHLOROMETHANE		5	U		5	U		5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	UJ	R	5	UJ	R
CYCLOHEXANE		5	U		5	U		5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	U		5	U		5	UJ	R	5	UJ	R
ETHYLBENZENE		4.6	J	P	23			5	UJ	R	6.8	J	R
ISOPROPYLBENZENE		4	J	P	13			5	UJ	R	8.2	J	R

PROJ_NO: 01655	NSAMPLE	FC-MW-06S-20100915			FC-MW-07I-20100915			FC-MW-07S-20100915			FC-MW-08S-20100915		
SDG: 1009183	LAB_ID	1009183-11			1009183-02			1009183-03			1009183-01		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	UR	C	13	UR	C	13	UR	C	13	UR	C
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		1.4	J	P	5	U	
ISOPROPYLBENZENE		5	U		5	U		0.91	J	P	5	U	

PROJ_NO: 01655	NSAMPLE	RB01-20100915			SA-MW-126D-20100916			SA-MW-126I-20100916			SA-MW-126S-20100916		
SDG: 1009183	LAB_ID	1009183-13			1009183-07			1009183-05			1009183-06		
FRACTION: OV	SAMP_DATE	9/15/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,1-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	UJ	R	5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	UJ	R	5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	UJ	R	5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
2-BUTANONE		13	UJ	R	13	U		13	U		13	U	
2-HEXANONE		13	UJ	R	13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	UJ	R	13	U		13	U		13	U	
ACETONE		13	UJ	R	13	UR	C	13	UR	C	13	UR	C
BENZENE		5	UJ	R	5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	UJ	R	5	U		5	U		5	U	
BROMOFORM		5	UJ	R	5	U		5	U		5	U	
BROMOMETHANE		5	UJ	R	5	U		5	U		5	U	
CARBON DISULFIDE		5	UJ	R	5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	UJ	R	5	U		5	U		5	U	
CHLOROBENZENE		5	UJ	R	5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	UJ	R	5	U		5	U		5	U	
CHLOROETHANE		5	UJ	R	5	U		5	U		5	U	
CHLOROFORM		5	UJ	R	5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	R	5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	U		5	U		5	U	
CYCLOHEXANE		5	UJ	R	5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	UJ	R	5	U		5	U		5	U	
ETHYLBENZENE		5	UJ	R	5	U		5	U		5	U	
ISOPROPYLBENZENE		5	UJ	R	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-MW-127D-20100916			SA-MW-127I-20100916			SA-MW-127S-20100916			SA-MW-128D-20100916		
SDG: 1009183	LAB_ID	1009183-14			1009183-15			1009183-16			1009183-17		
FRACTION: OV	SAMP_DATE	9/16/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	1.2	J	PR	5	UJ	R	5	UJ	R
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		5	UJ	R	9.1	J	R	5	UJ	R	1.6	J	PR
1,1-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	2.8	J	PR
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-MW-128S-20100916			SA-MW-129D-20100916			SA-MW-130I-20100916			SA-MW-130S-20100916		
SDG: 1009183	LAB_ID	1009183-18			1009183-19			1009183-20			1009183-21		
FRACTION: OV	SAMP_DATE	9/16/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	UJ	R	5	UJ	R	0.62	J	PR	5	UJ	R
1,1,2,2-TETRACHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1,2-TRICHLOROTRIFLUOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,1-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2,4-TRICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DIBROMOETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,2-DICHLOROPROPANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,3-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
1,4-DICHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
2-BUTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
2-HEXANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
4-METHYL-2-PENTANONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
ACETONE		13	UJ	R	13	UJ	R	13	UJ	R	13	UJ	R
BENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMODICHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
BROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON DISULFIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CARBON TETRACHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLORODIBROMOMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROFORM		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CHLOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CIS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
DICHLORODIFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ETHYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
ISOPROPYLBENZENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	TB02-20100915
SDG: 1009183	LAB_ID	1009183-08
FRACTION: OV	SAMP_DATE	9/15/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,1-DICHLOROPROPENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13	U	
2-HEXANONE	13	U	
4-METHYL-2-PENTANONE	13	U	
ACETONE	13	UR	C
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	

PROJ_NO: 01655	NSAMPLE	FC-DUP02-20100915			FC-MW-03S-20100915			FC-MW-05I-20100915			FC-MW-05S-20100915		
SDG: 1009183	LAB_ID	1009183-04			1009183-09			1009183-10			1009183-12		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	FC-MW-02S-20100915											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		13	J	G	15			10	UJ	R	2	J	PR
METHYL ACETATE		5	U		5	U		5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		1.7	J	P	5	U		5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	U		5	U		5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		16	J	G	5	U		5	UJ	R	5	UJ	R
NAPHTHALENE		17			16	U	A	5	UJ	R	37	J	R
O-XYLENE		12	J	G	5	U		5	UJ	R	0.4	J	PR
STYRENE		5	U		5	U		5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	U		5	U		5	UJ	R	5	UJ	R
TOLUENE		1.2	J	P	5	U		5	UJ	R	5	UJ	R
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	UJ	R	5	UJ	R
TOTAL XYLENES		25	J	G	15			5	UJ	R	2.4	J	PR
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	U		5	U		5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	U		5	U		5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	U		5	U		5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	FC-MW-06S-20100915			FC-MW-07I-20100915			FC-MW-07S-20100915			FC-MW-08S-20100915		
SDG: 1009183	LAB_ID	1009183-11			1009183-02			1009183-03			1009183-01		
FRACTION: OV	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		1.5	J	P	10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		17			16			12		
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		2.5	J	P	5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		1.5	J	P	5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	RB01-20100915			SA-MW-126D-20100916			SA-MW-126I-20100916			SA-MW-126S-20100916		
SDG: 1009183	LAB_ID	1009183-13			1009183-07			1009183-05			1009183-06		
FRACTION: OV	SAMP_DATE	9/15/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	U		10	U		10	U	
METHYL ACETATE		5	UJ	R	5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	UJ	R	5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	UJ	R	5	U		5	U		5	U	
METHYLENE CHLORIDE		5	UJ	R	5	U		15			14		
NAPHTHALENE		5	UJ	R	5	U		5	U		5	U	
O-XYLENE		5	UJ	R	5	U		5	U		5	U	
STYRENE		5	UJ	R	5	U		5	U		5	U	
TETRACHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TOLUENE		5	UJ	R	5	U		0.58	J	P	5	U	
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TOTAL XYLENES		5	UJ	R	5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	U		5	U		5	U	
TRICHLOROETHENE		5	UJ	R	5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	UJ	R	5	U		5	U		5	U	
VINYL CHLORIDE		5	UJ	R	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-MW-127D-20100916			SA-MW-127I-20100916			SA-MW-127S-20100916			SA-MW-128D-20100916		
SDG: 1009183	LAB_ID	1009183-14			1009183-15			1009183-16			1009183-17		
FRACTION: OV	SAMP_DATE	9/16/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	SA-MW-128S-20100916			SA-MW-129D-20100916			SA-MW-130I-20100916			SA-MW-130S-20100916		
SDG: 1009183	LAB_ID	1009183-18			1009183-19			1009183-20			1009183-21		
FRACTION: OV	SAMP_DATE	9/16/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	UJ	R	10	UJ	R	10	UJ	R	10	UJ	R
METHYL ACETATE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL CYCLOHEXANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYL TERT-BUTYL ETHER		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
METHYLENE CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
NAPHTHALENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
O-XYLENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
STYRENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TETRACHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOLUENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL 1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TOTAL XYLENES		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,2-DICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRANS-1,3-DICHLOROPROPENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROETHENE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
TRICHLOROFLUOROMETHANE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R
VINYL CHLORIDE		5	UJ	R	5	UJ	R	5	UJ	R	5	UJ	R

PROJ_NO: 01655	NSAMPLE	TB02-20100915
SDG: 1009183	LAB_ID	1009183-08
FRACTION: OV	SAMP_DATE	9/15/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
M+P-XYLENES	10	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
NAPHTHALENE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	

PROJ_NO: 01655	NSAMPLE	FC-MW-03S-20100915			FC-MW-03S-20100915DL			FC-MW-05I-20100915			FC-MW-05S-20100915		
SDG: 1009183	LAB_ID	1009183-09			1009183-09RE1			1009183-10			1009183-12		
FRACTION: OVG	SAMP_DATE	9/15/2010			9/15/2010			9/15/2010			9/15/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		1.1	U					1.1	U		1.1	U	
ETHENE		1	U					1	U		1	U	
METHANE					69			0.4	J	P			

PROJ_NO: 01655	NSAMPLE	FC-MW-05S-20100915DL			SA-MW-127D-20100916			SA-MW-127I-20100916			SA-MW-127S-20100916		
SDG: 1009183	LAB_ID	1009183-12RE1			1009183-14			1009183-15			1009183-16		
FRACTION: OVG	SAMP_DATE	9/15/2010			9/16/2010			9/16/2010			9/16/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE					1.1	U		1.1	U		1.1	U	
ETHENE					1	U		1	U		1	U	
METHANE		240			0.97			15			0.39	J	P

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **NOVEMBER 11, 2010**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 1009243

SAMPLES: 5/Sediment/VOC

SA-SD-124-20100922 SA-SD-125-20100922
SA-SD-201-20100922 SA-SD-204-20100922
SA-SD-DUP01-20100922

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 1009243 consists of five (5) environmental sediment samples. The samples were analyzed for volatile organic compounds (VOC). The field duplicate pair contained within this SDG is SA-SD-124-20100922/ SA-SD-DUP01-20100922.

The samples were collected by Tetra Tech on September 22, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Surrogate Recoveries
* • Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
• Field Duplicate Precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

Sample SA-SD-124-20100922 contains less than 30% solids. Positive and nondetected results were qualified as estimated (J) and (UJ), respectively.

Several contaminants were detected in the laboratory method blank VBLKBC associated with batch 0093001 analyzed on September 30, 2010 affecting all samples.

Contaminant	Maximum Concentration (ug/kg)	Action Level (ug/kg)
Toluene	0.51	2.55
Methylene chloride	3.2	32.0
Naphthalene	0.67	3.35

An action level of 10X the maximum concentration of methylene chloride, common laboratory contaminant, was established to evaluate the affected samples for laboratory blank contamination. An action level of 5X the maximum contaminant concentration of toluene and naphthalene was established to evaluate the samples for laboratory method blank contamination. Sample aliquot, percent solids and dilution factors were taken into consideration during application of the blank action level. Positive results of the aforementioned compounds in the affected samples less than the reporting limit and also less than the action level were raised to the reporting limit and qualified as (U).

Additional Comments

Field duplicate imprecision was noted in the field duplicate pair SA-SD-124-20100922 and SA-SD-DUP01-20100922. The relative percent difference (RPD) was greater than the 50% quality control limit for 1,1-dichloroethene, 1,2,4-trichlorobenzene, 2-butanone and acetone. No action was warranted because the variance was less than 2X the reporting limit.

The data reviewer noted a large discrepancy in the percent solids between the field duplicate pair. The data was verified by reviewing the dry weight worksheet. A copy of the dry weight worksheet is included in Appendix D.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Toluene, naphthalene and methylene chloride were detected in a laboratory method blank resulting in the qualification of data.

Other Factors Affecting Data Quality: Sample SA-SD-124-20100922 contains less than 30% solids.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

Ann Cognetti

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 01655	NSAMPLE	SA-SD-124-20100922			SA-SD-125-20100922			SA-SD-201-20100922			SA-SD-204-20100922		
SDG: 1009243	LAB_ID	1009243-02			1009243-03			1009243-04			1009243-01		
FRACTION: OV	SAMP_DATE	9/22/2010			9/22/2010			9/22/2010			9/22/2010		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	27.0			45.0			80.0			76.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,1,2,2-TETRACHLOROETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,1,2-TRICHLOROETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,1-DICHLOROETHANE		7.6	J	PY	11	U		6.2	U		6.6	U	
1,1-DICHLOROETHENE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,1-DICHLOROPROPENE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,2,4-TRICHLOROBENZENE		9.7	J	PY	11	U		6.2	U		6.6	U	
1,2-DIBROMO-3-CHLOROPROPANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,2-DIBROMOETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,2-DICHLOROBENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,2-DICHLOROETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,2-DICHLOROPROPANE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,3-DICHLOROBENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	
1,4-DICHLOROBENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	
2-BUTANONE		23	J	PY	28	U		16	U		16	U	
2-HEXANONE		46	UJ	Y	28	U		16	U		16	U	
4-METHYL-2-PENTANONE		46	UJ	Y	28	U		16	U		16	U	
ACETONE		130	J	Y	28	U		16	U		16	U	
BENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	
BROMODICHLOROMETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
BROMOFORM		18	UJ	Y	11	U		6.2	U		6.6	U	
BROMOMETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
CARBON DISULFIDE		18	UJ	Y	11	U		6.2	U		6.6	U	
CARBON TETRACHLORIDE		18	UJ	Y	11	U		6.2	U		6.6	U	
CHLOROBENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	
CHLORODIBROMOMETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
CHLOROETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
CHLOROFORM		18	UJ	Y	11	U		6.2	U		6.6	U	
CHLOROMETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
CIS-1,2-DICHLOROETHENE		18	UJ	Y	11	U		6.2	U		6.6	U	
CIS-1,3-DICHLOROPROPENE		18	UJ	Y	11	U		6.2	U		6.6	U	
CYCLOHEXANE		18	UJ	Y	11	U		6.2	U		6.6	U	
DICHLORODIFLUOROMETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
ETHYLBENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01-20100922
SDG: 1009243	LAB_ID	1009243-05
FRACTION: OV	SAMP_DATE	9/22/2010
MEDIA: SOIL	QC_TYPE	NM
	UNITS	UG/KG
	PCT_SOLIDS	69.0
	DUP_OF	SA-SD-124-20100922

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	7.3	U	
1,1,2,2-TETRACHLOROETHANE	7.3	U	
1,1,2-TRICHLOROETHANE	7.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	7.3	U	
1,1-DICHLOROETHANE	7.3	U	
1,1-DICHLOROETHENE	7.3	U	
1,1-DICHLOROPROPENE	7.3	U	
1,2,4-TRICHLOROBENZENE	7.3	U	
1,2-DIBROMO-3-CHLOROPROPANE	7.3	U	
1,2-DIBROMOETHANE	7.3	U	
1,2-DICHLOROBENZENE	7.3	U	
1,2-DICHLOROETHANE	7.3	U	
1,2-DICHLOROPROPANE	7.3	U	
1,3-DICHLOROBENZENE	7.3	U	
1,4-DICHLOROBENZENE	7.3	U	
2-BUTANONE	6.1	J	P
2-HEXANONE	18	U	
4-METHYL-2-PENTANONE	18	U	
ACETONE	46		
BENZENE	7.3	U	
BROMODICHLOROMETHANE	7.3	U	
BROMOFORM	7.3	U	
BROMOMETHANE	7.3	U	
CARBON DISULFIDE	7.3	U	
CARBON TETRACHLORIDE	7.3	U	
CHLOROBENZENE	7.3	U	
CHLORODIBROMOMETHANE	7.3	U	
CHLOROETHANE	7.3	U	
CHLOROFORM	7.3	U	
CHLOROMETHANE	7.3	U	
CIS-1,2-DICHLOROETHENE	7.3	U	
CIS-1,3-DICHLOROPROPENE	7.3	U	
CYCLOHEXANE	7.3	U	
DICHLORODIFLUOROMETHANE	7.3	U	
ETHYLBENZENE	7.3	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-124-20100922			SA-SD-125-20100922			SA-SD-201-20100922			SA-SD-204-20100922		
SDG: 1009243	LAB_ID	1009243-02			1009243-03			1009243-04			1009243-01		
FRACTION: OV	SAMP_DATE	9/22/2010			9/22/2010			9/22/2010			9/22/2010		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	27.0			45.0			80.0			76.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ISOPROPYLBENZENE		18	UJ	Y	11	U		6.2	U		6.6	U	
M+P-XYLENES		37	UJ	Y	22	U		12	U		13	U	
METHYL ACETATE		18	UJ	Y	11	U		6.2	U		6.6	U	
METHYL CYCLOHEXANE		18	UJ	Y	11	U		6.2	U		6.6	U	
METHYL TERT-BUTYL ETHER		18	UJ	Y	11	U		6.2	U		6.6	U	
METHYLENE CHLORIDE		18	U	A	11	U	A	6.2	U	A	6.6	U	A
NAPHTHALENE		18	U	A	11	U		6.2	U		6.6	U	
O-XYLENE		18	UJ	Y	11	U		6.2	U		6.6	U	
STYRENE		18	UJ	Y	11	U		6.2	U		6.6	U	
TETRACHLOROETHENE		18	UJ	Y	11	U		6.2	U		6.6	U	
TOLUENE		18	U	A	11	U	A	6.2	U	A	6.6	U	A
TOTAL 1,2-DICHLOROETHENE		18	UJ	Y	11	U		6.2	U		6.6	U	
TOTAL XYLENES		18	UJ	Y	11	U		6.2	U		6.6	U	
TRANS-1,2-DICHLOROETHENE		18	UJ	Y	11	U		6.2	U		6.6	U	
TRANS-1,3-DICHLOROPROPENE		18	UJ	Y	11	U		6.2	U		6.6	U	
TRICHLOROETHENE		18	UJ	Y	11	U		6.2	U		6.6	U	
TRICHLOROFLUOROMETHANE		18	UJ	Y	11	U		6.2	U		6.6	U	
VINYL CHLORIDE		18	UJ	Y	11	U		6.2	U		6.6	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01-20100922
SDG: 1009243	LAB_ID	1009243-05
FRACTION: OV	SAMP_DATE	9/22/2010
MEDIA: SOIL	QC_TYPE	NM
	UNITS	UG/KG
	PCT_SOLIDS	69.0
	DUP_OF	SA-SD-124-20100922

PARAMETER	RESULT	VQL	QLCD
ISOPROPYLBENZENE	7.3	U	
M+P-XYLENES	15	U	
METHYL ACETATE	7.3	U	
METHYL CYCLOHEXANE	7.3	U	
METHYL TERT-BUTYL ETHER	7.3	U	
METHYLENE CHLORIDE	7.3	U	A
NAPHTHALENE	7.3	U	
O-XYLENE	7.3	U	
STYRENE	7.3	U	
TETRACHLOROETHENE	7.3	U	
TOLUENE	7.3	U	A
TOTAL 1,2-DICHLOROETHENE	7.3	U	
TOTAL XYLENES	7.3	U	
TRANS-1,2-DICHLOROETHENE	7.3	U	
TRANS-1,3-DICHLOROPROPENE	7.3	U	
TRICHLOROETHENE	7.3	U	
TRICHLOROFLUOROMETHANE	7.3	U	
VINYL CHLORIDE	7.3	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **DECEMBER 1, 2010**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO WE08
SDG 1009073

SAMPLES: 21 / Aqueous / VOC

SA-TB-20100910	SA-TW347-1115	SA-TW347-2125
SA-TW347-3135	SA-TW348-1115	SA-TW348-2125
SA-TW348-3135	SA-TW349-1115	SA-TW349-2125
SA-TW349-3135	SA-TW353-3640	SA-TW354-1620
SA-TW354-2630	SA-TW354-3640	SA-TW355-1620
SA-TW355-2630	SA-TW355-3640	SA-TW356-1620
SA-TW356-2630	SA-TW356-3640	
SA-TWDUP03-20100909		

Overview

The sample set for NWIRP Calverton, SDG 1009073 consisted of twenty-one (21) aqueous environmental samples including one (1) trip blank. The aqueous samples were analyzed for volatile organic compounds (VOC). One field duplicate sample pair was associated with this sample data group (SDG); SA-TWDUP03-20100909 / SA-TW347-3135.

The samples were collected by Tetra Tech on September 8, 9, and 10, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG was validated with regard to the following parameters:

*	• Data completeness
*	• Hold times
*	• GC/MS System Tuning and Performance
	• Initial/continuing calibrations
	• Laboratory Method Blank Results
*	• Laboratory Control Sample Recoveries
*	• Surrogate Spike Recoveries
*	• Internal Standard Recoveries
*	• Matrix Spike/Matrix Spike Duplicate Recoveries
*	• Field Duplicate Results
*	• Compound Identification
*	• Compound Quantitation
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The following analytes were detected in the associated method blanks at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene Chloride [1]	1.3	13.0
Toluene [1]	0.82	4.10
Toluene [2]	1.1	5.5
1,2,4-Trichlorobenzene [2]	1.3	6.5
Naphthalene [2]	4.1	20.5
Toluene [3]	0.64	3.2

[1] Method blank VBLKGV batch 0091326 affecting samples SA-TW353-3640, SA-TW354-1620, SA-TW354-2630, SA-TW356-2630, SA-TW356-3640, and SA-TW349-1115.

[2] Method blank VBLKGW batch 0091426 affecting samples SA-TW356-1620, SA-TW349-2125, SA-TW349-3135, SA-TW347-1115, SA-TW347-2125, SA-TW347-3135, SA-TWDUP03-201009, SA-TW348-1115, SA-TW348-2125, SA-TW355-2630, and SA-TW355-3640.

[3] Method blank VBLKGX batch 0091431 affecting samples SA-TW354-3640, SA-TW349-2125DL, SA-TW349-3135DL, SA-TW348-2125DL, SA-TW348-3135, SA-TB-20100910, and SA-TW355-1620.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant compound methylene chloride, and 5X for other contaminant compounds was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the limit of quantitation (LOQ).

The initial calibration relative response factor (RF) was less than the 0.05 quality control limit for acetone for instrument 5972hp59 on 09/13/10. Additionally, the continuing calibration verification RF for acetone was less than the 0.05 quality control limit for instrument 5972hp59 on 09/14/10 @ 11:55. Both quality control exceedances affected samples SA-TW356-1620, SA-TW349-2125, SA-TW349-3135, SA-TW347-1115, SA-TW347-2125, SA-TW347-3135, SA-TWDUP03-20100909, SA-TW348-1115, SA-TW348-2125, SA-TW355-2630, and SA-TW355-3640. The positive acetone aforementioned sample results were qualified estimated, (J), and non-detected aforementioned sample acetone results were qualified rejected, (UR).

The continuing calibration verification (CCV) percent difference (%D) exceeded the 20% quality control limit for bromomethane for instrument 5972HP59 on 09/14/10 @ 11:55 affecting samples SA-TW356-1620, SA-TW349-2125, SA-TW349-3135, SA-TW347-1115, SA-TW347-2125, SA-TW347-3135, SA-TWDUP03-20100909, SA-TW348-1115, SA-TW348-2125, SA-TW355-2630, and SA-TW355-3640. The non-detected bromomethane sample results were qualified estimated, (UJ).

Positive results below the LOQ and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Additional Comments

Samples were analyzed both undiluted and also diluted for analytes that exceeded the linear calibration range in the undiluted analysis. The analytes which exceeded the linear calibration range were reported from the dilution analysis and the remainder of the analytes were reported from the undiluted analyses. The following is a list of the samples and the dilutions.

Sample	Dilution
SA-TW348-2125	10X
SA-TW349-2125	7.69X
SA-TW349-3135	7.69X

Naphthalene was detected in the trip blank, SA-TB-20100910.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method blank contamination resulted in qualification of sample analyte data. VOC sample results for acetone and bromomethane were qualified due to initial calibration/CCV RRF and CCV %D, respectively, quality control limit exceedances.

Other Factors Affecting Data Quality: Positive results below the limit of quantitation and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02045	NSAMPLE	SA-TB-20100910			SA-TW347-1115			SA-TW347-2125			SA-TW347-3135		
SDG: 1009073	LAB_ID	1009073-18			1009073-11			1009073-12			1009073-13		
FRACTION: OV	SAMP_DATE	9/10/2010			9/9/2010			9/9/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		1.2	J	P
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		1.3	J	P	0.7	J	P
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	UR	C	13	UR	C	13	UR	C
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	UJ	C	5	UJ	C	5	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW348-1115			SA-TW348-2125			SA-TW348-2125DL			SA-TW348-3135		
SDG: 1009073	LAB_ID	1009073-15			1009073-16			1009073-16RE1			1009073-17		
FRACTION: OV	SAMP_DATE	9/9/2010			9/9/2010			9/9/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U					550			5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U					5	U	
1,1-DICHLOROETHANE		5	U					1500			4	J	P
1,1-DICHLOROETHENE		5	U		72						5	U	
1,1-DICHLOROPROPENE		5	U		5	U					5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U					5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U					5	U	
1,2-DIBROMOETHANE		5	U		5	U					5	U	
1,2-DICHLOROBENZENE		5	U		3.8	J	P				5	U	
1,2-DICHLOROETHANE		5	U		5	U					5	U	
1,2-DICHLOROPROPANE		5	U		5	U					5	U	
1,3-DICHLOROBENZENE		5	U		5	U					5	U	
1,4-DICHLOROBENZENE		5	U		5	U					5	U	
2-BUTANONE		13	U		13	U					13	U	
2-HEXANONE		13	U		13	U					13	U	
4-METHYL-2-PENTANONE		13	U		13	U					13	U	
ACETONE		13	UR	C	13	UR	C				5.2	J	P
BENZENE		5	U		4.6	J	P				5	U	
BROMODICHLOROMETHANE		5	U		5	U					5	U	
BROMOFORM		5	U		5	U					5	U	
BROMOMETHANE		5	UJ	C	5	UJ	C				5	U	
CARBON DISULFIDE		5	U		5	U					5	U	
CARBON TETRACHLORIDE		5	U		5	U					5	U	
CHLOROBENZENE		5	U		5	U					5	U	
CHLORODIBROMOMETHANE		5	U		5	U					5	U	
CHLOROETHANE		5	U					340			5	U	
CHLOROFORM		5	U		5	U					5	U	
CHLOROMETHANE		5	U		5	U					5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
CYCLOHEXANE		5	U		5.6						5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U					5	U	
ETHYLBENZENE		5	U		120						5	U	
ISOPROPYLBENZENE		0.52	J	P	35						5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW349-1115			SA-TW349-2125			SA-TW349-2125DL			SA-TW349-3135		
SDG: 1009073	LAB_ID	1009073-08			1009073-09			1009073-09RE1			1009073-10		
FRACTION: OV	SAMP_DATE	9/9/2010			9/9/2010			9/9/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U					830					
1,1,2,2-TETRACHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U					5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U					5	U	
1,1-DICHLOROETHANE		1.9	J	P				1200					
1,1-DICHLOROETHENE		5	U		61						76		
1,1-DICHLOROPROPENE		5	U		5	U					5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U					5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U					5	U	
1,2-DIBROMOETHANE		5	U		5	U					5	U	
1,2-DICHLOROBENZENE		5	U		1.7	J	P				2.5	J	P
1,2-DICHLOROETHANE		5	U		5	U					5	U	
1,2-DICHLOROPROPANE		5	U		5	U					5	U	
1,3-DICHLOROBENZENE		5	U		5	U					5	U	
1,4-DICHLOROBENZENE		5	U		5	U					5	U	
2-BUTANONE		13	U		13	U					13	U	
2-HEXANONE		13	U		13	U					13	U	
4-METHYL-2-PENTANONE		13	U		13	U					13	U	
ACETONE		13	U		7.2	J	CP				6.6	J	CP
BENZENE		3.2	J	P	2	J	P				17		
BROMODICHLOROMETHANE		5	U		5	U					5	U	
BROMOFORM		5	U		5	U					5	U	
BROMOMETHANE		5	U		5	UJ	C				5	UJ	C
CARBON DISULFIDE		5	U		5	U					5	U	
CARBON TETRACHLORIDE		5	U		5	U					5	U	
CHLOROBENZENE		5	U		5	U					5	U	
CHLORODIBROMOMETHANE		5	U		5	U					5	U	
CHLOROETHANE		5	U					500					
CHLOROFORM		5	U		5	U					5	U	
CHLOROMETHANE		0.45	J	P	5	U					5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
CYCLOHEXANE		5	U		5	U					5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U					5	U	
ETHYLBENZENE		50			3.3	J	P				16		
ISOPROPYLBENZENE		15			6.3						17		

PROJ_NO: 02045	NSAMPLE	SA-TW349-3135DL			SA-TW353-3640			SA-TW354-1620			SA-TW354-2630		
SDG: 1009073	LAB_ID	1009073-10RE1			1009073-01			1009073-02			1009073-03		
FRACTION: OV	SAMP_DATE	9/9/2010			9/8/2010			9/8/2010			9/8/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	1200			5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE				5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE				5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE				5	U		5	U		5	U	
1,1-DICHLOROETHANE	1300			1.5	J	P	5	U		5	U	
1,1-DICHLOROETHENE				5	U		5	U		5	U	
1,1-DICHLOROPROPENE				5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE				5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE				5	U		5	U		5	U	
1,2-DIBROMOETHANE				5	U		5	U		5	U	
1,2-DICHLOROBENZENE				5	U		5	U		5	U	
1,2-DICHLOROETHANE				5	U		5	U		5	U	
1,2-DICHLOROPROPANE				5	U		5	U		5	U	
1,3-DICHLOROBENZENE				5	U		5	U		5	U	
1,4-DICHLOROBENZENE				5	U		5	U		5	U	
2-BUTANONE				13	U		13	U		13	U	
2-HEXANONE				13	U		13	U		13	U	
4-METHYL-2-PENTANONE				13	U		13	U		13	U	
ACETONE				13	U		5.7	J	P	13	U	
BENZENE				5	U		5	U		5	U	
BROMODICHLOROMETHANE				5	U		5	U		5	U	
BROMOFORM				5	U		5	U		5	U	
BROMOMETHANE				5	U		5	U		5	U	
CARBON DISULFIDE				5	U		5	U		5	U	
CARBON TETRACHLORIDE				5	U		5	U		5	U	
CHLOROBENZENE				5	U		5	U		5	U	
CHLORODIBROMOMETHANE				5	U		5	U		5	U	
CHLOROETHANE	250			5	U		5	U		5	U	
CHLOROFORM				5	U		5	U		5	U	
CHLOROMETHANE				5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE				5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE				5	U		5	U		5	U	
CYCLOHEXANE				5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE				5	U		5	U		5	U	
ETHYLBENZENE				5	U		5	U		5	U	
ISOPROPYLBENZENE				5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW354-3640			SA-TW355-1620			SA-TW355-2630			SA-TW355-3640		
SDG: 1009073	LAB_ID	1009073-04			1009073-19			1009073-20			1009073-21		
FRACTION: OV	SAMP_DATE	9/8/2010			9/10/2010			9/10/2010			9/10/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		2.1	J	P	5	U		5	U		5.7		
1,1-DICHLOROETHENE		5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		1.3	J	P	5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	UR	C	13	UR	C
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	UJ	C	5	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW356-1620			SA-TW356-2630			SA-TW356-3640			SA-TWDUP03-20100909		
SDG: 1009073	LAB_ID	1009073-05			1009073-06			1009073-07			1009073-14		
FRACTION: OV	SAMP_DATE	9/8/2010			9/8/2010			9/8/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-TW347-3135		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		33			5	U	
1,1-DICHLOROETHENE		5	U		5	U		1.6	J	P	5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		0.84	J	P	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	UR	C	13	U		13	U		13	UR	C
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	UJ	C	5	U		5	U		5	UJ	C
CARBON DISULFIDE		5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TB-20100910			SA-TW347-1115			SA-TW347-2125			SA-TW347-3135		
SDG: 1009073	LAB_ID	1009073-18			1009073-11			1009073-12			1009073-13		
FRACTION: OV	SAMP_DATE	9/10/2010			9/9/2010			9/9/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		1.3	J	P	6.6	U	A	5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW348-1115			SA-TW348-2125			SA-TW348-2125DL			SA-TW348-3135		
SDG: 1009073	LAB_ID	1009073-15			1009073-16			1009073-16RE1			1009073-17		
FRACTION: OV	SAMP_DATE	9/9/2010			9/9/2010			9/9/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		65						10	U	
METHYL ACETATE		5	U		5	U					5	U	
METHYL CYCLOHEXANE		5	U		7.1						5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U					5	U	
METHYLENE CHLORIDE		5	U		5	U					5	U	
NAPHTHALENE		5	U					190			5	U	
O-XYLENE		5	U		5	U					5	U	
STYRENE		5	U		5	U					5	U	
TETRACHLOROETHENE		5	U		5	U					5	U	
TOLUENE		5	U	A	5	U	A				5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U					5	U	
TOTAL XYLENES		5	U		65						5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
TRICHLOROETHENE		5	U		5	U					5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U					5	U	
VINYL CHLORIDE		5	U		5	U					5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW349-1115			SA-TW349-2125			SA-TW349-2125DL			SA-TW349-3135		
SDG: 1009073	LAB_ID	1009073-08			1009073-09			1009073-09RE1			1009073-10		
FRACTION: OV	SAMP_DATE	9/9/2010			9/9/2010			9/9/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		120			1.3	J	P				10	U	
METHYL ACETATE		5	U		5	U					5	U	
METHYL CYCLOHEXANE		5	U		2	J	P				2.4	J	P
METHYL TERT-BUTYL ETHER		5	U		5	U					5	U	
METHYLENE CHLORIDE		5	U		5	U					5	U	
NAPHTHALENE		63			61						150		
O-XYLENE		5	U		5	U					17		
STYRENE		5	U		5	U					5	U	
TETRACHLOROETHENE		5	U		5	U					5	U	
TOLUENE		5	U	A	5	U	A				5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U					5	U	
TOTAL XYLENES		120			1.3	J	P				17		
TRANS-1,2-DICHLOROETHENE		5	U		5	U					5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U					5	U	
TRICHLOROETHENE		5	U		1.2	J	P				0.95	J	P
TRICHLOROFLUOROMETHANE		5	U		5	U					5	U	
VINYL CHLORIDE		5	U		5	U					5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW349-3135DL			SA-TW353-3640			SA-TW354-1620			SA-TW354-2630		
SDG: 1009073	LAB_ID	1009073-10RE1			1009073-01			1009073-02			1009073-03		
FRACTION: OV	SAMP_DATE	9/9/2010			9/8/2010			9/8/2010			9/8/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES					10	U		10	U		10	U	
METHYL ACETATE					5	U		5	U		5	U	
METHYL CYCLOHEXANE					5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER					5	U		5	U		5	U	
METHYLENE CHLORIDE					5	U		5	U		5	U	
NAPHTHALENE					5	U		5	U		5	U	
O-XYLENE					5	U		5	U		5	U	
STYRENE					5	U		5	U		5	U	
TETRACHLOROETHENE					5	U		5	U		5	U	
TOLUENE					5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE					5	U		5	U		5	U	
TOTAL XYLENES					5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE					5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE					5	U		5	U		5	U	
TRICHLOROETHENE					5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE					5	U		5	U		5	U	
VINYL CHLORIDE					5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW354-3640			SA-TW355-1620			SA-TW355-2630			SA-TW355-3640		
SDG: 1009073	LAB_ID	1009073-04			1009073-19			1009073-20			1009073-21		
FRACTION: OV	SAMP_DATE	9/8/2010			9/10/2010			9/10/2010			9/10/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW356-1620			SA-TW356-2630			SA-TW356-3640			SA-TWDUP03-20100909		
SDG: 1009073	LAB_ID	1009073-05			1009073-06			1009073-07			1009073-14		
FRACTION: OV	SAMP_DATE	9/8/2010			9/8/2010			9/8/2010			9/9/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-TW347-3135		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **R. SOK** **DATE:** **DECEMBER 1, 2010**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO WE08
SDG 1009091

SAMPLES: 3 / Aqueous / VOC

SA-TW357-1620 SA-TW357-2630 SA-TW357-3640

Overview

The sample set for NWIRP Calverton, SDG 1009091 consisted of three (3) aqueous environmental samples. The aqueous samples were analyzed for volatile organic compounds (VOC). No field duplicate sample pairs were associated with this sample data group (SDG).

The samples were collected by Tetra Tech on September 10, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG was validated with regard to the following parameters:

*	•	Data completeness
*	•	Hold times
*	•	GC/MS System Tuning and Performance
*	•	Initial/continuing calibrations
	•	Laboratory Method Blank Results
*	•	Laboratory Control Sample Recoveries
*	•	Surrogate Spike Recoveries
*	•	Internal Standard Recoveries
	•	Matrix Spike/Matrix Spike Duplicate Recoveries
*	•	Compound Identification
*	•	Compound Quantitation
*	•	Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

The following analyte was detected in the associated method blank VBLKGX batch 0091431 affecting all samples at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Toluene	0.64	3.2

An action level of 5X for toluene was established to evaluate laboratory contamination for the aforementioned compounds. Dilution factors and sample aliquots were taken into consideration

during the application of all action levels. Positive results less than the action level were qualified as non-detected, (U), as a result of laboratory blank contamination and the results were reported to the limit of quantitation.

Positive results below the limit of quantitation and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Additional Comments

The matrix spike (MS) and the MS duplicate (MSD) percent recoveries (%R) were marginally less than the quality control limit for styrene for spiked sample SA-TW357-1620. No action was taken as the laboratory control sample (LCS) %R for styrene was within the quality control limits and no action is required without other quality control issues.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Method blank contamination resulted in qualification of sample analyte data.

Other Factors Affecting Data Quality: Positive results below the limit of quantitation and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP #HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

TetraTech NUS
Joseph Kalinyak
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, IRRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - excludes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02045	NSAMPLE	SA-TW357-1620			SA-TW357-2630			SA-TW357-3640		
SDG: 1009091	LAB_ID	1009091-01			1009091-02			1009091-03		
FRACTION: OV	SAMP_DATE	9/10/2010			9/10/2010			9/10/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		5	U		38		
1,1-DICHLOROETHENE		5	U		5	U		3.7	J	P
1,1-DICHLOROPROPENE		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		1.5	J	P
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	U		5	U	
1,2-DICHLOROETHANE		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U	
2-HEXANONE		13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U	
ACETONE		4.1	J	P	13	U		4.8	J	P
BENZENE		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U	
CARBON DISULFIDE		5	U		5	U		5	U	
CARBON TETRACHLORIDE		5	U		5	U		5	U	
CHLOROBENZENE		5	U		5	U		5	U	
CHLORODIBROMOMETHANE		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
CYCLOHEXANE		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW357-1620			SA-TW357-2630			SA-TW357-3640		
SDG: 1009091	LAB_ID	1009091-01			1009091-02			1009091-03		
FRACTION: OV	SAMP_DATE	9/10/2010			9/10/2010			9/10/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **D. BRAYACK** **DATE:** **DECEMBER 7, 2010**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO WE08
SDG 1009071

SAMPLES: 21 / Aqueous / VOC

SA-RB01-20100907	SA-SB01-20100908	SA-TB-20100907
SA-TW346-1115	SA-TW346-2125	SA-TW346-3135
SA-TW346-4145	SA-TW350-1115	SA-TW350-2125
SA-TW350-3135	SA-TW351-1115	SA-TW351-2125
SA-TW351-3135	SA-TW351-4145	SA-TW352-1620
SA-TW352-2630	SA-TW356-3640	SA-TW353-1620
SA-TWDUP01-20100907	SA-TWDUP02-20100908	SA-TW353-2630

Overview

The sample set for NWIRP Calverton, SDG 1009071 consists of twenty-one (21) aqueous environmental samples. The aqueous samples were analyzed for volatile organic compounds (VOC). There were two field duplicate pairs associated with this sample data group (SDG); SA-TW351-2125 / SA-TWDUP01-20100907 and SA-TW352-2630 / SA-TWDUP02-20100908.

The samples were collected by Tetra Tech on September 7 and 8, 2010 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with EPA Method SW-846 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial/continuing calibrations
* • GC/MS Tuning
• Laboratory Method Blank Results
* • Surrogate Recoveries
• Matrix Spike / Matrix Spike Duplicate Recoveries
* • Laboratory Control Sample Recoveries
* • Field Duplicate Precision
* • Internal Standard Recoveries
* • Compound Quantitation
* • Compound Identification
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile Organic Compounds

The following contaminants were detected in the laboratory method blanks at the following maximum concentrations:

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Toluene[(1)]	0.50	2.5
Naphthalene[(1)]	1.6	8.0
Methylene chloride[(2)]	1.3	13.0
Toluene[(2)]	0.82	4.1
Toluene[(3)]	1.1	5.5
1,2,4-Trichlorobenzene[(3)]	1.3	6.5
Naphthalene[(3)]	4.1	20.5

1 – Contaminants present in method blank VBLKGU.
2 – Contaminants present in method blank VBLKGV.
3 - Contaminants present in method blank VBLKGW.

An action level of 10X the maximum contaminant concentration of methylene chloride; 5X for toluene, naphthalene, and 1,2,4-trichlorobenzene was established to evaluate the affected samples for laboratory method blank contamination. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. The positive 1,2,4-trichlorobenzene, methylene chloride, and toluene results less than the reporting limit and less than the action level were raised to the reporting limit and qualified as (U).

Initial and continuing calibration relative response factor (RRF) was less than the 0.05 quality control limit for acetone on instrument "5972HP59", on 09/13/10. The positive and non-detected results for acetone were qualified (J) and (UR), respectively, in all samples except SA-TW352-1620, SA-TW352-2630, SA-TWDUP02-20100908, SA-TW352-3640, SA-SB01-20100908, SA-TW353-1620, and SA-TW353-2630.

Continuing calibration percent difference (%D) was greater than the 20% quality control limit for bromomethane on instrument "5972HP59", on 09/13/10 at 11:55. The non-detected results reported for bromomethane were qualified as estimated (UJ) in samples, SA-TW351-4145, SA-TW346-2125, SA-TW346-3135, SA-TW346-4145, SA-TW350-1115, SA-TW350-2125, SA-TW350-3135, and SA-RB01-20100907.

Additional Comments

Positive results below the limit of quantitation (LOQ) and above the detection limit (DL) were qualified as estimated, (J), due to uncertainty near the detection limit.

The matrix spike / matrix spike duplicate (MS/MSD) performed on sample SA-TW346-3135 had percent recoveries greater than the laboratory control limits for chloromethane, bromomethane, and chloroethane in the MS and a MSD recovery greater than the control limit for chloroethane. No action was taken on the chloromethane, bromomethane, and chloroethane results because the MS or MSD had an acceptable recovery and they were not detected in the sample.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Toluene, methylene chloride, 1,2,4-trichlorobenzene, and naphthalene were detected in laboratory method blanks. An initial calibration had a low RRF for acetone. One continuing calibration percent difference was greater than the quality control limit for bromomethane.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA National Functional Guidelines for Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by SW-846 Method 8260B HW-24 Revision #2 (October 2006) and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

TetraTech NUS
Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C – Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02045	NSAMPLE	SA-RB01-20100907			SA-SB01-20100908			SA-TB-20100907			SA-TW346-1115		
SDG: 1009071	LAB_ID	1009071-14			1009071-19			1009071-02			1009071-07		
FRACTION: OV	SAMP_DATE	9/7/2010			9/8/2010			9/7/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	UR	C	4.6	J	P	3.4	J	CP	13	UR	C
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		2.9	J	P	5	U		5	U	
BROMOMETHANE	5	UJ	C	5	U		5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		1.7	J	P	5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW346-2125			SA-TW346-3135			SA-TW346-4145			SA-TW350-1115		
SDG: 1009071	LAB_ID	1009071-08			1009071-09			1009071-10			1009071-11		
FRACTION: OV	SAMP_DATE	9/7/2010			9/7/2010			9/7/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		15			5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	1	J	P	38			5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	UR	C	13	UR	C	13	UR	C	13	UR	C
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		1.8	J	P

PROJ_NO: 02045	NSAMPLE	SA-TW350-2125			SA-TW350-3135			SA-TW351-1115			SA-TW351-2125		
SDG: 1009071	LAB_ID	1009071-12			1009071-13			1009071-01			1009071-03		
FRACTION: OV	SAMP_DATE	9/7/2010			9/7/2010			9/7/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		0.92	J	P
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	13	UR	C	13	UR	C	13	UR	C	13	UR	C
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	UJ	C	5	UJ	C	5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW351-3135			SA-TW351-4145			SA-TW352-1620			SA-TW352-2630		
SDG: 1009071	LAB_ID	1009071-05			1009071-06			1009071-15			1009071-16		
FRACTION: OV	SAMP_DATE	9/7/2010			9/7/2010			9/8/2010			9/8/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	1.1	J	P	5	U		5	U		5	U	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U	
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE	5	U		5	U	A	5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U	
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U	
2-BUTANONE	13	U		13	U		13	U		13	U	
2-HEXANONE	13	U		13	U		13	U		13	U	
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U	
ACETONE	6.5	J	CP	13	UR	C	13	U		13	U	
BENZENE	5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U	
BROMOFORM	5	U		5	U		5	U		5	U	
BROMOMETHANE	5	U		5	UJ	C	5	U		5	U	
CARBON DISULFIDE	5	U		5	U		5	U		5	U	
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U	
CHLOROBENZENE	5	U		5	U		5	U		5	U	
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	5	U		5	U		5	U		5	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U	
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U	
CYCLOHEXANE	5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U	
ETHYLBENZENE	5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW352-3640			SA-TW353-1620			SA-TW353-2630			SA-TWDUP01-20100907		
SDG: 1009071	LAB_ID	1009071-18			1009071-20			1009071-21			1009071-04		
FRACTION: OV	SAMP_DATE	9/8/2010			9/8/2010			9/8/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-TW351-2125		
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	5	U		5	U		5	U		1	J	P	
1,1,2,2-TETRACHLOROETHANE	5	U		5	U		5	U		5	U		
1,1,2-TRICHLOROETHANE	5	U		5	U		5	U		5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		5	U		5	U		5	U		
1,1-DICHLOROETHANE	1.4	J	P	5	U		5	U		5	U		
1,1-DICHLOROETHENE	5	U		5	U		5	U		5	U		
1,1-DICHLOROPROPENE	5	U		5	U		5	U		5	U		
1,2,4-TRICHLOROBENZENE	5	U		5	U		5	U		5	U		
1,2-DIBROMO-3-CHLOROPROPANE	5	U		5	U		5	U		5	U		
1,2-DIBROMOETHANE	5	U		5	U		5	U		5	U		
1,2-DICHLOROBENZENE	5	U		5	U		5	U		5	U		
1,2-DICHLOROETHANE	5	U		5	U		5	U		5	U		
1,2-DICHLOROPROPANE	5	U		5	U		5	U		5	U		
1,3-DICHLOROBENZENE	5	U		5	U		5	U		5	U		
1,4-DICHLOROBENZENE	5	U		5	U		5	U		5	U		
2-BUTANONE	13	U		13	U		13	U		13	U		
2-HEXANONE	13	U		13	U		13	U		13	U		
4-METHYL-2-PENTANONE	13	U		13	U		13	U		13	U		
ACETONE	13	U		13	U		13	U		13	UR	C	
BENZENE	5	U		5	U		5	U		5	U		
BROMODICHLOROMETHANE	5	U		5	U		5	U		5	U		
BROMOFORM	5	U		5	U		5	U		5	U		
BROMOMETHANE	5	U		5	U		5	U		5	U		
CARBON DISULFIDE	5	U		5	U		5	U		5	U		
CARBON TETRACHLORIDE	5	U		5	U		5	U		5	U		
CHLOROBENZENE	5	U		5	U		5	U		5	U		
CHLORODIBROMOMETHANE	5	U		5	U		5	U		5	U		
CHLOROETHANE	5	U		5	U		5	U		5	U		
CHLOROFORM	5	U		5	U		5	U		5	U		
CHLOROMETHANE	5	U		5	U		5	U		5	U		
CIS-1,2-DICHLOROETHENE	5	U		5	U		5	U		5	U		
CIS-1,3-DICHLOROPROPENE	5	U		5	U		5	U		5	U		
CYCLOHEXANE	5	U		5	U		5	U		5	U		
DICHLORODIFLUOROMETHANE	5	U		5	U		5	U		5	U		
ETHYLBENZENE	5	U		5	U		5	U		5	U		
ISOPROPYLBENZENE	5	U		5	U		5	U		5	U		

PROJ_NO: 02045	NSAMPLE	SA-TWDUP02-20100908
SDG: 1009071	LAB_ID	1009071-17
FRACTION: OV	SAMP_DATE	9/8/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	SA-TW352-2630

PARAMETER	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,1-DICHLOROPROPENE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2-DIBROMO-3-CHLOROPROPANE	5	U	
1,2-DIBROMOETHANE	5	U	
1,2-DICHLOROBENZENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,4-DICHLOROBENZENE	5	U	
2-BUTANONE	13	U	
2-HEXANONE	13	U	
4-METHYL-2-PENTANONE	13	U	
ACETONE	13	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
CYCLOHEXANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
ISOPROPYLBENZENE	5	U	

PROJ_NO: 02045	NSAMPLE	SA-RB01-20100907			SA-SB01-20100908			SA-TB-20100907			SA-TW346-1115		
SDG: 1009071	LAB_ID	1009071-14			1009071-19			1009071-02			1009071-07		
FRACTION: OV	SAMP_DATE	9/7/2010			9/8/2010			9/7/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		0.78	J	P	0.47	J	P	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW346-2125			SA-TW346-3135			SA-TW346-4145			SA-TW350-1115		
SDG: 1009071	LAB_ID	1009071-08			1009071-09			1009071-10			1009071-11		
FRACTION: OV	SAMP_DATE	9/7/2010			9/7/2010			9/7/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	A
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW350-2125			SA-TW350-3135			SA-TW351-1115			SA-TW351-2125		
SDG: 1009071	LAB_ID	1009071-12			1009071-13			1009071-01			1009071-03		
FRACTION: OV	SAMP_DATE	9/7/2010			9/7/2010			9/7/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U	A	5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW351-3135			SA-TW351-4145			SA-TW352-1620			SA-TW352-2630		
SDG: 1009071	LAB_ID	1009071-05			1009071-06			1009071-15			1009071-16		
FRACTION: OV	SAMP_DATE	9/7/2010			9/7/2010			9/8/2010			9/8/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U	A	5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TW352-3640			SA-TW353-1620			SA-TW353-2630			SA-TWDUP01-20100907		
SDG: 1009071	LAB_ID	1009071-18			1009071-20			1009071-21			1009071-04		
FRACTION: OV	SAMP_DATE	9/8/2010			9/8/2010			9/8/2010			9/7/2010		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF										SA-TW351-2125		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL ACETATE		5	U		5	U		5	U		5	U	
METHYL CYCLOHEXANE		5	U		5	U		5	U		5	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U	A	5	U	A	5	U	A	5	U	A
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 02045	NSAMPLE	SA-TWDUP02-20100908
SDG: 1009071	LAB_ID	1009071-17
FRACTION: OV	SAMP_DATE	9/8/2010
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	SA-TW352-2630

PARAMETER	RESULT	VQL	QLCD
M+P-XYLENES	10	U	
METHYL ACETATE	5	U	
METHYL CYCLOHEXANE	5	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	5	U	
NAPHTHALENE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	A
TOTAL 1,2-DICHLOROETHENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
TRICHLOROFLUOROMETHANE	5	U	
VINYL CHLORIDE	5	U	