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Data Summary Report
for
2009 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

February 2010

TETRA TECH

DATA SUMMARY REPORT
FOR
2009 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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ACRONYMS

ACM	asbestos containing material
AS/SVE	Air sparging/soil vapor extraction
bgs	below ground surface
BTEX	benzene, toluene, ethyl benzene, and xylene
CLEAN	Comprehensive Long-Term Environmental Action Navy
COC	Chain of custody
CN	Cyanide
CTO	Contract Task Order
CY	cubic yards
DHB	Dehalobacter
DHC	Dehalococcoides
DPT	Direct-push technology
DRO	Diesel range organics
EE/CA	Engineering evaluation/cost analysis
ft/day	feet per day
ft/ft	feet per foot
GAC	Granular Activated Carbon
GOCO	Government-owned contractor-operated
GRO	Gasoline range organics
HNUS	Halliburton NUS
HSA	Hollow stem auger
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 - Atlantic
NGC	Northrop Grumman Corporation
NTU	Nephelometric turbidity units
NWIRP	Naval Weapons Industrial Reserve Plant
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation

ACRONYMS (Continued)

NYSDOH	New York State Department of Health
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
TCL	Target Compound List
TIC	Temporary identified compound
TOC	Total organic carbon
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	micrograms per kilograms

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 2009 groundwater investigation activities conducted at the Naval Weapons Industrial Reserve Plant (NWIRP) located in Calverton, New York (Figures 1-1 and 1-2). The 2009 investigation activities consisted of the following: temporary well installation, monitoring well installation, groundwater, surface water, and sediment sampling at Installation Restoration Sites 2, 6A and 10B and the Southern Area, as presented in the Work Plan and Work Plan Addendum (Tetra Tech NUS, Inc. [Tetra Tech], 2008a and 2009a). This investigation was 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 2009 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 develop an understanding of the current site characteristics including the presence of contamination.

Groundwater monitoring activities detailed in this document are a continuance of the current groundwater monitoring program at these sites, as presented in the Work Plan and a Work Plan addendum (Tetra Tech, 2008a and 2009a). A removal action at Site 2 was conducted in late 2008 and into 2009 and remedial actions at Sites 6A and 10B were conducted in 2009 to address contaminated soils and eliminate a continuing source of groundwater contamination at these sites. The objectives of the groundwater monitoring activities are 1) to determine and monitor quality of groundwater at the sites, 2) evaluate natural attenuation of site contaminants, as necessary, and 3) provide data to evaluate potential impacts of contaminated groundwater on downgradient receptors.

The groundwater monitoring program will be used to evaluate the need for future actions and to evaluate potential impacts of contaminated groundwater on the downgradient Peconic River.

A detailed description of field activities is presented in Section 3.0 of this report. Field work conducted in 2009 is summarized as follows.

- Annual groundwater sampling at Site 2
- Annual groundwater sampling at Site 6A,10B, and the Southern Area
- Monitoring well installation at Site 6A and the Southern Area
- Temporary monitoring well installation, soil borings, and sampling and analysis of groundwater for volatile organic compounds (VOCs) in the Southern Area during March and September 2009
- Semi-annual surface water and sediment sampling in the Peconic River
- Natural biodegradation study of groundwater at Site 6A and the Southern Area in November 2009
- 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. 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).

There are currently no operational activities being conducted on the Navy's 209 acres. There are no process-type operations being conducted on the Navy's property at the Calverton facility that could generate hazardous waste nor are there any requirements for storage of hazardous materials on the Navy's property. Similarly, there will be no hazardous materials brought onto the Navy property to be used as part of any process-type operations. In addition, the Navy will not be operating a hazardous waste storage area that would require permitting pursuant to 6 New York Code of Rules and Regulations (NYCRR) Part 373. Rather, all wastes generated as a result of continuation of the Navy's IR program will be managed at each parcel location for which a corrective action is taking place. As such, these parcels should be considered as less than 90-day storage areas that are exempt from 6 NYCRR Part 373 permit requirements (Tetra Tech, 2007a).

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).

A former underground storage tank (UST) located at the old fuel calibration pad (south of Building 231), was 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 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 an 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 (330 µg/kg), dichlorobenzene (900 µg/kg), tetrachloroethene (470 µg/kg), and 1, 1, 1-trichloroethane (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: chloroethane (1,100 micrograms per liter [µg/L]), 1 ,1-dichloroethane (1,200 µg/L), toluene (320 µg/L), 1 ,1, 1-trichloroethane (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 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 depth and one intermediate depth permanent monitoring well were installed. Two rounds of groundwater samples were collected from permanent 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 11 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 drilled during the field investigation. A total of 29 samples were collected from 20 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 29 soil boring samples, there were 13 screening level exceedances of TPH-DRO. In addition, there were 13 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 29 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). 21 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), 1,1-dichloroethane (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 (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 removing contaminated soil, an AS/SVE system, and the 80-foot concrete circular concrete pad. During the removal action 10,860 tons (at most 6 feet below grade) of shallow petroleum contaminated soil and 546 tons (at most 2.2 feet below grade) of surficial coal (northern [contained PCBs] and southern) were excavated and hauled off site. The AS/SVE system was also demolished, which entailed 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. After the excavation, 1,100 pounds of calcium oxyhydroxide (Regenesis® ORC Advanced) was applied to the excavation floor. The pit was then backfilled with clean fill, regarded, and vegetated.

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 [1,1,1-trichloroethane (15,000 micrograms per liter [µg/L]), 1,1-dichloroethane (5,800 µg/L), chloroethane (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 [1,1,1-trichloroethane (12 µg/L), 1, 1-dichloroethane (29 µg/L), chloroethane (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 1,1,1-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, benzene, chloroethane, 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 12 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, chloroethane at 5 µg/L at a concentration equal to the NYSDOH MCL. Chloroethane was also detected in FC-MW-02S and FC-MW-07S. 1,1-Dichloroethane (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 12 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 chloroethane at 5 µg/L which is equal to NYSDOH MCL. Chloroethane was also detected in FC-MW-02S and FC-MW-07S. 1,1-Dichloroethane (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).

Currently (2009), a remedial action to remove PCB and petroleum contaminated soil is taking place at Site 6A. The total excavation volume is expected to be 15,570 CY, of which approximately 1,610 CY is expected to be PCB-contaminated. Of the remaining soil, 6,610 CY is expected to be petroleum-contaminated requiring offsite disposal. Based on a unit weight of 110 pounds per cubic foot (1.485 tons per CY) approximately 2,390 tons of PCB-contaminated soil and 9,820 tons of petroleum-contaminated soil are expected to be removed from the excavation (Tetra Tech, 2008e).

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. 1,1,1-Trichloroethane 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).

Southern Area

Prior to the 2009 groundwater sampling and analysis activities, investigations were conducted in 1997, 2000, 2004/2005, 2006, and 2008. 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, and 2008 investigations.

The groundwater contamination in the Southern Area consists of a chlorinated solvent - 1,1,1-trichloroethane and breakdown products 1,1-dichloroethane, 1,1-dichloroethene, and chloroethane). 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 not continuous from Site 6A, and 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). Most of this contamination is currently located in the vicinity of Grumman Boulevard and River Road and 1,1-dichloroethane 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 7 of 17 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, 1,1-dichloroethane at 250 µg/L, and chloroethane 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 1,1,1-trichloroethane at 15,000 µg/L, 1,1-dichloroethane at 5,800 µg/L, and chloroethane 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 off site 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. 1,1-Dichloroethane 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. 1,1-Dichloroethane 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, 1,1-dichloroethane 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 a confining unit, a vertical gradient could result in the false positive detections of VOCs at depth.
- 1,1-Dichloroethane 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; 1,1-dichloroethane was detected at 38 µg/L in one of the piezometers. Surface water and sediment samples were collected in the Peconic River and 1,1-dichloroethane 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.

- 1,1-Dichloroethane was detected at a maximum concentration of 470 µg/L in permanent monitoring wells located near the intersection of River Road and Grumman Boulevard.
- 1,1-Dichloroethane was detected at a maximum concentration of 17 µg/L in a monitoring well located near the Peconic River. 1,1-Dichloroethane was not previously detected in this well.
- 1,1-Dichloroethane 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). 1,1-Dichloroethane 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.
- 1,1-Dichloroethane 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 met MCLs.

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.

In 2009, 17 temporary wells and 7 new monitoring wells were installed. Based on this new information an updated geologic cross section was generated and the plan view location (A-A') is presented as Figure 2-2. Cross section A-A' (Figure 2-3) runs northwest from Site 6A-Fuel Calibration Area to the southeast through Site 10B-Engine Test House and PRSC and then south through the Peconic River. The soil borings were characterized from depths ranging 17 to 150 feet bgs. The cross sections were drawn using data from boring logs (temporary and permanent monitoring wells) and geophysical logs (gamma logs). Emphasis was placed on the geophysical logs 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 clusters that were associated with focused study areas of groundwater contamination.

Based on cross section A-A' (Figure 2-3), there is a fine-grained to medium-grained sand down to approximately 50 feet bgs where a silty clay unit (aquitard) is encountered. This aquitard unit is about 25 feet thick at Site 6A and thins out to the southeast. This unit appears to pinch out between SA-MW-131 and SA-PZ-123. 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 150 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. NWIRP Calverton as relatively flat with alternating units of sands and silts/clays overlying the laterally extensive silty clay unit.

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 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 more aerially extensive silt/clay layers 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 groundwater 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 November 2009 (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). Based on these data, groundwater flow is toward the southeast, with elevations ranging from 39 to 41 feet msl.

Figure 2-5 presents the groundwater elevations for the shallow wells from Site 6A, Site 10B, and the Southern Area, in November 2009. Based on this data, groundwater flow is toward the southeast, with groundwater elevations ranging from 39.29 (FC-MW08S) to 25.96 (SA-PZ-120S) feet msl, from Site 6A toward the Peconic River. Affecting shallow groundwater flow is a dam which ponds up the Peconic River on PRSC property. Groundwater flows under and around the dam creating a localized disruption from the typical southeasterly flow.

Figures 2-6 and 2-7 and Table 2-1 present the groundwater potentiometric surface elevations for the intermediate (I) and deep (D) wells in the Southern Area, respectively. A comparison of potentiometric surface contours in Figures 2-6 and 2-7 show that there are areas in the Southern Area where groundwater has a downward gradient across the upper confining unit. Analysis of vertical flow between the intermediate and deep wells at the well cluster SA-MW-127 shows that there is a downward vertical gradient of 0.0123 feet per foot (ft/ft) between these two well depths. This variance in downward vertical gradients corresponds to the presence of a silty clay unit separating the shallow/intermediate from the deep wells. This gradient also suggests that the silty clay unit 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. In addition, there is no evidence of contamination below this silty clay unit (Tetra Tech, 2005).

Where the upper confining unit is not present (southeast Southern Area) a slight upward gradient is believed to exist, 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 shows that there is an upward vertical gradient of 0.0059 ft/ft between these two well depths (Figures 2-8). Based on this data, groundwater flow is toward the southeast, ranging from 39 to 25 feet msl, from Site 6A toward the Peconic River.

Figure 2-8 presents a potentiometric map depicting vertical groundwater flow for cross section A-A'. This cross section runs northwest (Site 6A) to southeast (Peconic River), in the general direction of groundwater flow. There are also silty clay lenses that act as local confining units. The upper two silty clay layers are not found in the southeastern portion of the Southern Area along Connecticut Avenue where groundwater flows into the Peconic River.

3.0 FIELD INVESTIGATION

3.1 FIELD AND SAMPLING ACTIVITIES

The 2009 groundwater investigation activities at Sites 2, 6A, 10B, and the Southern Area was conducted to continue the groundwater monitoring at these sites and address data gaps in the current monitoring well network (Southern Area). The groundwater investigation included temporary well installation and sampling, permanent monitoring well installation, sampling of new and existing monitoring wells, staff gauge installation, surveying of new monitoring wells and staff gauges, slug testing, a biodegradation study, semi-annual surface water and sediment sampling, and quarterly water supply well sampling. These activities were conducted in order to further evaluate site contaminants in groundwater and provide data to evaluate potential impacts of contaminated groundwater to downgradient receptors.

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 Well Installation

In March 2009, a groundwater investigation was conducted in the area between Site 10B and northern portion of the Southern Area (railroad tracks) to address potential source areas, data gaps, and determine the placement of permanent monitoring wells in this area. A total of nine temporary wells were installed via DPT rig using a 4-foot screen point sampler. Each temporary well location consisted of 3 sample depths; samples were collected at approximate depths of 11-15 feet bgs, 26-30 feet bgs, and 46-55 feet bgs (just the above the silty clay aquitard).

A second field event took place in September 2009 and included eight temporary wells installed east and south of the first event between River Road and the railroad tracks. Like the March event, each temporary well location included three sample depths. These temporary wells were installed via hollow stem auger (HSA) rig in which temporary wells were set at each sample depth with a 5-foot screen. Soil cuttings generated during drilling were screened with a photoionization detector (PID) and visually inspected for signs of contamination. Visually clean soils with no elevated PID readings were spread near the associated boring location. During the drilling, small volumes of potable water was added to control flowing sands from entering the annulus of the augers. Prior to sampling, the volume of water added was then purged.

The temporary well depths ranged from approximately 37 to 60 feet bgs. Prior to sampling of the deep interval, the top upper confining unit was confirmed at selected locations via macrocore or split-spoon sampling. This confining unit has been historically observed in this area from 40 to 60 feet bgs. The groundwater grab/temporary well locations are presented on Table 3-1, and include the soil boring locations and depths of groundwater sampling. The temporary well locations can be found on Figure 3-1 and the temporary well logs are presented in Appendix A.

3.1.2 Temporary Well Sampling

Sampling of the temporary wells was conducted to address potential source areas, data gaps, and characterize groundwater in the Southern Area. Groundwater sampling was also conducted to better determine the vertical and horizontal extent of contamination, and evaluate the continuity of the groundwater plume (Figure 3-1).

A total of 51 groundwater/grab samples were collected from the 17 temporary well locations in March and September 2009. In March 2009 a total of 27 groundwater/grab samples were collected from nine temporary well locations (SA-TW-301 to SA-TW-309). Depths of groundwater sampling ranged from (shallow) 11 to 15 feet bgs, (intermediate), 26 to 30 feet bgs, and (deep) 45 to 54 feet bgs for these temporary monitoring wells. In September 2009, a total of 24 groundwater/grab samples were collected from eight temporary well locations at depths ranging from (shallow) 7 to 15 feet bgs, (intermediate) 23 to 29 feet bgs, and (deep) 32 to 53 feet bgs for each of the temporary wells. In each case, the deepest sample from each boring was located just above the silty clay aquitard. The temporary well sampling depths are presented on Table 3-1. Appendix A presents the groundwater sample log sheets.

Groundwater samples were collected from a DPT screen point sampler using a peristaltic pump in March 2009 and from temporary well screens installed via HSA rig and a Grundfos Redi-Flo pump in September 2009. 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 Installation

Eight (8) monitoring wells were installed during investigation activities (Figures 3-2 and 3-3). One monitoring well was installed at Site 6A on September 10, 2009 to monitor potential migration of fuel-contaminated groundwater from Site 6A (Figure 3-2). Seven (7) monitoring wells were installed in the Southern Area from August 31, 2009 to September 10, 2009 to complete the 2006 proposed monitoring well network for the Southern Area (Figure 3-3). The new monitoring wells

in the Southern Area were installed as 3 well clusters (for locations see Figure 3-3). These wells will be used to support the ongoing groundwater monitoring program.

The new well depths range from approximately 14 to 70 feet bgs, including 3 shallow wells (14 - 19 feet bgs), 3 intermediate-depth wells (37 - 50 feet bgs), and 1 deep well (70 feet bgs). Depths were finalized in the field based on actual depths and thickness of the aquitard and depth to the water table. Monitoring wells were constructed using 2-inch diameter polyvinyl chloride (PVC), 10-foot long 10-slot well screen, and a bentonite seal. The remainder of the annular space up to the ground surface was filled using bentonite/cement grout. The wells were finished with an approximate 2-foot stickup and lockable steel protective casing. The monitoring wells were developed and surged using a Grundfos Redi-Flow submersible pump. The wells were developed to remove drilling fluids and any fine-grained material in the casing from installation. A monitoring well construction summary is presented as Table 3-2 (Site 6A) and Table 3-3 (Southern Area). Soil Boring Logs, Gamma Logs, Monitoring Well Construction Sheets, and Monitoring Well Development Records are presented in Appendix B.

The monitoring wells were installed using a HSA rig and constructed in 8 inch diameter soil borings. In order to control running sands, limited amounts of potable water were added as needed. During well installation, five samples were collected for Total Organic Carbon (TOC) analysis at depths ranging from 14 to 56 feet bgs from SA-MW-130I, SA-MW-131I, SA-MW-132S, SA-MW-132I, and FC-MW-07I (Appendix B). In addition, the lithology at SA-MW-131D and SA-MW-132I was determined using the gamma logs presented in Appendix B. Soil cuttings generated during onsite drilling were screened with a PID and visually inspected for signs of contamination. Visually clean soils with no elevated PID readings were spread onsite near the associated well location. Soil cuttings from offsite monitoring well locations were containerized in 55-galllon drums and managed as solid investigation-derived waste (IDW).

3.1.4 Groundwater Sampling

Groundwater sampling was conducted at Sites 2, 6A, 10B, and the Southern Area. There are thirteen existing groundwater monitoring wells at Site 2 (Figure 3-4), nine existing groundwater monitoring wells at Site 6A (Figure 3-2), three existing groundwater monitoring wells at Site 10B (Figure 3-2), and twenty one existing monitoring wells in the Southern Area (Figure 3-3). One additional monitoring well was installed at Site 6A and seven additional monitoring wells were installed in the Southern Area (Figures 3-2 and 3-3). Monitoring well construction details for Site 2 are presented on Table 3-4, monitoring well construction details for Site 6A and 10B are presented as Table 3-2, and monitoring well construction details for the Southern Area wells are presented on Table 3-3.

Between August 31, 2009 to September 17, 2009, 54 groundwater monitoring wells were sampled during the annual groundwater monitoring event (Site 2 – 13 monitoring wells, Site 6A - 10 monitoring wells, Site 10B - 3 monitoring wells, and Southern Area - 28 monitoring wells), (see Figures 3-1 through 3-4). FC-MW-02S, FC-MW-02I, and FC-MW-03S were abandoned during excavation activities at Site 6A were not sampled during the annual sampling event. All groundwater samples were analyzed for VOCs and select monitoring wells were sampled for MEE (Appendix C). On September 30 and November 18, 2009, groundwater level measurements were collected and recorded for site monitoring wells as presented in Appendix D.

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 Chain of Custody (COC) forms are presented in (Appendix E).

Groundwater samples were collected from the monitoring wells 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 sheets can be found in Appendix C. All purge water was contained in 5-gallon buckets or 55-gallon drums and later transferred to a 2,600 gallon polyethylene tank.

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 December 8, 2008, and March 25, June 24 and September 16, 2009 (Figure 3-3). These samples were collected to monitor the quality of groundwater in those 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 3-3). 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), 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.

3.1.5 Staff Gauges

On September 29, 2009 two staff gauges were installed in the impoundment formed by the dammed portion of the Peconic River on PRSC property. Staff Gauge #1 WS PR was installed southwest of the SA-MW-132 cluster adjacent to a drainage pipe under the road, and Staff Gauge #2 ES PR was installed to the east near the earthen dam (Figure 3-3). Both of the staff gauges are 3.35 feet in length with descending numbers from top to bottom.

A benchmark, BM ES Conn Ave HDWL, was also set up to measure the elevation of the Peconic River below the impoundment on PRSC property. The location of this benchmark is the top of a concrete culvert east of Connecticut Avenue from which a surface water elevation could be measured (Figure 3-3). Elevations recorded from the staff gauges and the benchmark are presented on Table 2-1.

3.1.6 Survey

All new monitoring wells, selected existing monitoring wells, staff gauges, and the benchmark were surveyed by BANC3, Inc. a licensed New York surveyor on November 5th and 6th, 2009. Vertical and horizontal measurements were collected and the survey results can be found in Appendix F. A summary of top of casing elevations is provided in Tables 3-2, 3-3, and 3-4.

3.1.7 Slug Testing

Between September 2 and September 16, 2009, slug tests were conducted at 26 monitoring wells located at Site 6A and in the Southern Area. Slug lengths and diameters varied based on the diameter of the well and the amount of standing water within the well. Electronic transducers were used to measure the rising and falling head of the groundwater, during insertion and extraction of slugs in the wells. During the slug testing, water levels recovered in seconds and indicated relatively high conductivities in the field. A summary of the slug test results can be found in Table 3-5 and the AQTESOLV® plots are presented in Appendix B.

The slug testing targeted three zones within the surficial aquifer; the upper surficial, which included the water table monitoring wells, the middle surficial, which included the intermediate wells placed just above the aquitard, and the lower surficial, which targeted the lithology just below the aquitard unit. Based on the slug test results, average hydraulic conductivities for these three zones were as follows:

- Upper Surficial – 340 ft/day
- Middle Surficial – 90 ft/day
- Lower Surficial – 115 ft/day

Based on these average hydraulic conductivities and the gradients obtained from the November 2009 groundwater contour maps (Figures 2-5, 2-6, and 2-7), seepage velocities for these three zones were calculated at 1,040 ft/year (Upper Surficial), 250 ft/year (Middle Surficial), and 252 ft/year (Lower Surficial). The seepage velocities indicate that groundwater flow in the Upper Surficial zone is approximately four times faster then the velocities observed in the Middle and Lower Surficial zones. Due to the fast recoveries observed during the slug testing, pump tests may be necessary to better define the hydraulic conductivities and provide an estimate on vertical conductivity across the aquitard unit observed in the study area.

3.1.8 Biodegradation Study

A biodegradation study took place from November 16 to November 20, 2009 to assess groundwater conditions and gauge its favorability for biodegradation of site-related chlorinated VOCs. As specified in the Work Plan, six groundwater monitoring wells (monitoring wells FC-MW-07S, SA-MW-127I, SA-MW-128D, SA-MW-131D, SA-PZ-123I1, and SA-PZ-118S) were sampled for VOCs, nitrate/nitrite/sulfate/chloride, sulfide, methane, ethane, ethene, total organic carbon, ammonia, ferrous iron and manganese, *Dehalobacter* (DHB) and *Dehalococcoides* (DHC) (Tetra Tech, 2009b). Standard low-flow sampling procedures were used and stabilization of geochemical parameters was achieved prior to sampling by monitoring readings from a Horiba U-22 Multimeter and LaMotte Turbidity meter. The groundwater was also characterized in the field by using CHEMetric and Hach test kits for dissolved oxygen, carbon dioxide, alkalinity, ferrous iron, and hydrogen sulfide, see Appendix G for Low Flow Purge, Groundwater Sample, Field Analytical Log Sheets, Analytical results, and Chain of Custodies.

Microbial Insights of Rockford, TN received the samples collected for DHB and DHC, while CompuChem of Cary, NC received the remaining groundwater samples for analysis. Tables providing the analytical results and field geochemical parameters from this sampling event and previous events can be found in Appendix G.

The results of the biodegradation study show that conditions in most of the study area are suitable for anaerobic degradation of chlorinated VOCs, especially in the deeper groundwater and near the river. However, biodegradation may not be occurring fast enough to prevent VOCs from entering the River or to reduce VOC concentrations in groundwater to groundwater cleanup goals

in an acceptable time frame. Further evaluation is needed to determine whether enhancement of the biodegradation process could be a viable remedial alternative to address areas of contaminated groundwater in the Southern Area.

3.1.9 Surface Water Sampling

Four surface water samples were collected in March and September 2009 along the Peconic River from Connecticut Avenue to a location approximately 2,100 feet down river (Figure 3-3). This portion of the river represents the probable discharge point 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 installed in 2006. 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 H.

3.1.10 Sediment Sampling

Four sediment samples that correlate with the surface water sample locations were collected along the Peconic River (Figure 3-3). 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 H.

3.2 FIELD OBSERVATIONS

The following summarizes field observations made during the field investigation.

- At Site 2, approximately 0.1 feet of floating free product was found in monitoring well FT-MW-02S and a PID reading of 70 part s per million (ppm) was observed.
- In the September 2009 sampling event, groundwater samples were collected at newly installed wells, SA-MW-131S, SA-MW-131I, SA-MW-131D, SA-MW-132S, and SA-MW-132I with turbidity readings above 10 nephelometric turbidity units (NTU).

- Suspended orange particulate was encountered in groundwater at monitoring well SA-PZ-120S.
- Brown tinted water was observed during sampling at SA-PZ-124 and SA-PZ-125.
- Temporary well groundwater samples were split with SCDHS at SA-TW-310, -311, -313, -315, -316, and -317. In addition to VOCs, SCDHS collected samples for metals.

4.0 ANALYTICAL RESULTS AND FINDINGS

4.1 SAMPLE RESULTS

This section presents the results of the chemical analyses performed for the groundwater, sediment, and surface water samples collected in 2009. Samples collected during 2009 sampling activities were shipped to CompuChem Environmental Testing Laboratories of Cary, North Carolina for analysis. Chain of Custodies that document samples collected for this investigation can be found in Appendix E. 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 I and validation summaries are provided in Appendix J.

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, and 4-4 present summaries of VOC detections in groundwater samples collected from Sites 2, 6A, 10B, and the Southern Area during the 2009 sampling events. For a comparison, 2008 data is also presented in these tables. Table 4-6 presents a summary of VOC detections for groundwater samples collected from the PRSC supply wells in December 2008, March, June, September and November 2009. Figures 4-1 (Site 2), 4-2 (Site 6A and 10B), 4-3 (2009 temporary wells), 4-4 (Southern Area), 4-5 (surface water and sediment), and 4-6 (PRSC) present a summary of historical and current analytical detections. Figure 4-7 presents 1,1-dichloroethane isoconcentration contours for the Southern Area, Figure 4-8 presents 1,1,1-trichloroethane isoconcentration contours, and Figure 4-9 presents chloroethane isoconcentration contours. Figure 4-10 presents the 1,1-dichloroethane isoconcentration contours in cross section view. SCDHS profile well data was included in the creation of the isoconcentration contours for Figures 4-7 through 4-10.

Site 2-Fire Training Area

A total of 13 monitoring wells were sampled at Site 2 in September 2009. The groundwater samples were analyzed for VOCs and 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 (1,1-dichloroethane, 1,2-dichlorobenzene, ethylbenzene, isopropylbenzene, and total xylenes) at concentrations equal to or greater than the NYSDOH MCL of 5 µg/L (Figure 4-1) and (Table 4-1). In addition, methane was detected in FT-MW-02S and FT-MW-05S.

Site 6A-Fuel Calibration Area

A total of 10 monitoring wells were sampled at Site 6A in September 2009. The groundwater samples were analyzed for VOCs and 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 (Figure 4-2 and Table 4-2). FC-MW-02S, 02I, and 03S which were abandoned during excavation activities at Site 6A were not sampled during the 2009 sampling event. These monitoring wells will be included in future sampling after the wells are reinstalled. Methane was detected in FC-MW-04S and FC-MW-04I.

Site 10B-Engine Test House

Three 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 at Site 10B in 2009 (Figure 4-2 and Table 4-3).

Southern Area

A total of 51 groundwater samples were collected from 17 temporary well locations, SA-TW-301 through SA-TW-317. Groundwater samples were analyzed for VOCs and a total of eleven VOCs were detected in 19 samples. Of the 19 groundwater samples that contained detectable concentrations of VOCs, eight of the temporary well samples contained VOCs at concentrations that were equal to or greater than NYSDOH MCLs. Table 4-4 provides a summary of VOC detections and Figure 4-3 presents the temporary well locations along with the distribution of VOC detections from Table 4-4. Detections of 1,1,1-trichloroethane were found in six of the groundwater samples (SA-TW-311-51, SA-TW-312-46, SA-TW-313-47, SA-TW-314-44, SA-TW-315-45, and SA-TW-316-37) at concentrations ranging from 2 to 280 µg/L. Detections of 1,1-dichloroethane were found in 13 groundwater samples (SA-TW-302-54, SA-TW-305-15, SA-TW-305-30, SA-TW-306-51, SA-TW-307-49, SA-TW-308-49, SA-TW-311-51, SA-TW-312-46, SA-TW-313-47, SA-TW-314-44, SA-TW-315-45, SA-TW-316-37, and SA-TW-317-44.5) at concentrations ranging from 1.3 to 1200 µg/L. Detections of 1,1-dichloroethene were observed in six groundwater samples. Concentrations of 1,1,-dichloroethene ranged from 1.2 to 55 µg/L. Detections of chloroethane were observed in three groundwater samples (SA-TW-312-46, SA-TW-314-44, and SA-TW-316-37) of which two exceeded NYSDOH MCLs, SA-TW-312-46 and SA-TW-314-44 at 91 µg/L and 14 µg/L, respectively. In addition 1,2,4-trichlorobenzene exceeded the NYSDOH MCL in SA-TW-301-15 at 5.1 µg/L.

A total of 30 groundwater samples were collected from the Southern Area permanent monitoring wells during the 2009 annual sampling event. These samples were analyzed for VOCs and monitoring wells SA-MW-127S, 127I, 127D, 128S, 128I, 128D, SA-PZ-118S, 118I, 123S, 123I, and 123I1 were also sampled for MEE. Table 4-5 provides a summary of analytical detections in the Southern Area and analytical data from 2008 groundwater sampling is also provided for comparison. Figure 4-4 presents the distribution of detected compounds and also provides historical groundwater sampling results for monitoring wells in the Southern Area.

A total of eight VOCs were detected in 11 of the 30 monitoring wells sampled in 2009. Of the eleven monitoring wells that contained detectable concentrations of VOCs, eight wells contained VOCs at concentrations that were equal to or greater than NYSDOH MCLs. Detections of 1,1,1-trichloroethane were observed in wells SA-MW-127I and SA-MW128I; however, only well SA-MW127I exceeded the NYSDOH MCL of 5 µg/L at a concentration 61 µg/L.

1,1-Dichloroethane was detected in twelve monitoring wells (SA-MW-127I, SA-MW-128I, SA-MW-128D, SA-MW-129S, SA-MW-129I, SA-MW-131D, SA-MW-132I, SA-PZ-118S, SA-PZ-123S, SA-PZ-123I, SA-PZ-123I1, and SA-PZ-124). Of these detections, concentrations of 1,1-dichloroethane exceeded NYSDOH MCLs in seven of the monitoring wells including SA-MW-127I, SA-MW-128I, SA-MW-131D, SA-MW-132I, SA-PZ-123I, SA-PZ-123I1, and SA-PZ-124. Concentrations of 1,1-dichloroethane ranged from 5.4 to 270 µg/L in these monitoring wells.

1,1-Dichloroethene was detected in six monitoring wells (SA-MW-127I, SA-MW-128I, SA-MW-131D, SA-MW132I, SA-PZ-123S, and SA-PZ-124). Of these detections, concentrations of 1,1-dichloroethene exceeded NYSDOH MCLs in SA-MW127I and SA-PZ-123I at 20 µg/L and 6.9 µg/L, respectively. 1,4-dichlorobenzene and chloroethane were detected in monitoring well SA-MW127I. Methane was detected in fourteen monitoring wells, including SA-MW-128S, SA-MW-128I, SA-MW-128D, SA-MW-130S, SA-MW-130I, SA-MW-131S, SA-MW-131I, SA-MW-131D, SA-MW-132S, SA-MW-132I, SA-PZ-118S, SA-PZ-123S, SA-PZ-123I1, and SA-PZ-123I at concentrations ranging from 0.2 to 210 µg/L. Ethane was only detected in monitoring well SA-MW-127S at 0.2 µg/L.

A total of eight surface water samples and eight sediment samples were collected in the Peconic River during the two rounds of sampling conducted in March and September 2009. Surface water and sediment samples were analyzed for VOCs. Table 4-5 (page 6 and 7) provides a summary of analytical detections in surface water and sediment samples and also provides analytical data from 2008 sampling for comparison. Figure 4-5 presents the distribution of

detected compounds and also provides historical sampling results for the surface water and sediment sample locations on the Peconic River.

1,2,4-trichlorobenzene (4.9 J µg/L) and naphthalene (4.8 JB µg/L) were detected in one surface water sample (SA-SW124) collected in March 2009. No VOCs were detected in surface water samples SA-SW125, SA-SW201, and SA-SW204 during the March 2009 sampling event and no VOCs were detected in any of the four surface water samples collected in September 2009.

VOCs were detected in sediment samples SA-SD124, SA-SD125, and SA-SD204 during the 2009 sampling events. No VOCs were detected in either round of sampling in 2009 at sediment location SA-SD201. 1,1-Dichloroethane was detected at a concentration of 7.5 µg/kg in SA-SD-124 collected during the March 2009 event, but was not detected during the September 2009 event. Toluene, 2-hexanone, and naphthalene were detected in SA-SD-125 in September 2009 at 2.5, 11, and 3.7 µg/kg, respectively. Only toluene was detected in SA-SD-125 at 39 µg/kg during the March sampling event. One detection of 2-butanone (7.1 µg/kg) was observed in SA-SD-204 in September 2009. However, it was not detected in the associated duplicate sample at that location.

Peconic River Sportsman Club

Six water samples were collected from four active water supply wells at the PRSC during each sampling event in December 2008 and March, June, September, and November 2009. Table 4-6 and Figure 4-6 presents the analytical detections from the 2008 and 2009 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 eight quarterly sampling events in 2008 and 2009, 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 eight rounds of sampling. The results for sample location CA-PRSC-01 has shown no detections of VOCs until the September 2009 sampling event where naphthalene was detected at 3.4 µg/L.

At the Activity Center, the supply well has an operating two-stage liquid phase GAC unit. The three system samples have been collected prior to treatment, in between the first and second carbon unit and after treatment. The pre-treatment sample, CA-PRSC-02-01, has consistently shown detections of 1,1-dichloroethane at approximately 12 µg/L over the eight rounds of sampling. This detection exceeds the NYSDOH MCL of 5 µg/L. 1,1-dichloroethene (6 ug/L) was detected above the NYSDOH MCL of 5 µg/L in the last round of sampling conducted in September 2009. This sample location has also shown detections of 1,2-dichloroethane, 1,2-dichloroethylene, cis-1,2-dichloroethene, trichloroethene, and benzene 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 1,1-dichloroethane, 1,2-dichloroethane, and isopropylbenzene at concentrations below the NYSDOH MCLs. 1,1-dichloroethane has been detected at concentrations of 1.1 and 1.2 µg/L in the last two rounds of sampling. Detections of isopropylbenzene, chloromethane, and methyl tert-butyl ether were historically observed in CA-PRSC-02-03 (post-carbon) at concentrations below the NYSDOH MCLs in 2008. However, no VOC detections have been observed in the last 5 rounds of sampling at CA-PRSC-02-03. The results from CA-PRSC-02-03 show that the treatment at the Activity Center is still affective, but with the low VOC detections in between the carbon tanks, the carbon or the carbon tanks will need replaced in the near future.

5.0 CONCLUSIONS AND RECOMMENDATIONS

In summary, current groundwater conditions at Sites 2, 6A, 10B, and the Southern Area are becoming better understood and future groundwater monitoring will provide data needed to establish containment trends, assess biodegradation, support the groundwater monitoring program, and development of corrective measures.

Conclusions based on the 2009 groundwater investigative activities are as follows:

1. Comparable concentrations and/or general decreasing contaminant concentrations were observed in Southern Area monitoring wells.

2. Temporary well sampling in September 2009 indicated elevated VOC detections north and west of SA-MW-127I on Navy property.

3. Biodegradation study showed that conditions in most of the study area are suitable for anaerobic degradation of chlorinated VOCs.

4. Groundwater sampling at Site 2 indicated only one monitoring well (FT-MW02S) with VOC concentrations above MCL's and evidence of free product (0.1 inch).

Recommendations based on the 2009 groundwater investigative activities are as follows:

1. Continue with annual groundwater monitoring at Site 2, 6A, 10B, and the Southern Area

2. Conduct quarterly groundwater level monitoring to provide better information on seasonal groundwater flow patterns and monitor the free product observed at Site 2.

3. Install temporary monitoring wells in and around SA-TW-311 and SA-TW-312, to further delineate up-gradient edge of groundwater contamination and the Hot Spot area observed during the 2009 temporary well program.

4. Install a monitoring well cluster along River Road just north of the tributary in order to define and monitor the southwestern edge of the Southern Area groundwater plume.

5. Conduct pump tests in the Southern Area to refine hydraulic conductivities and groundwater flow velocities to support a Corrective Measures Study.

6. Conduct a pilot study to determine whether enhanced biodegradation is a viable remedial alternative for Southern Area groundwater.

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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 Depth (feet) [1]	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)
						9/30/2009		11/18/2009	
2	SHALLOW	FT-MW01S	18 to 28	63.88	62.12	22.7	41.18	23.10	40.78
		FT-MW02S	10 to 20	55.47	53.34	14.72	40.75	14.82	40.65
		FT-MW03S	21 to 31	66.87	64.38	25.33	41.54	25.84	41.03
		FT-MW04S	16.5 to 26.5	61.33	59.95	20.44	40.89	20.60	40.73
		FT-MW05S	7.5 to 17.5	51.48	49.37	11.51	39.97	11.48	40.00
		FT-MW06S	17 to 27	61.28	59.44	20.8	40.48	20.98	40.30
		FT-MW07S	25 to 35	70.3	68.33	29.28	41.02	29.73	40.57
		FT-MW08S		47.92		7.98	39.94	7.94	39.98
2	INTERMEDIATE	FT-MW01I	68 to 78	64.16	62.11	22.4	41.76	22.82	41.34
		FT-MW02I	58 to 68	55.57	53.26	14.61	40.96	14.86	40.71
		FT-MW05I	48 to 58	51.92	49.87	11.92	40	11.90	40.02
		FT-MW06I	65 to 75	61.99	60.38	21.81	40.18	21.97	40.02
		FT-MW08I		48.01		8.08	39.93	8.01	40.00
6A	SHALLOW	FC-MW-01-S	5 to 15	47.50	*46.56	9.11	38.39	10.26	37.24
		FC-MW-04-S	3 to 13	45.40	*44.46	7.5	37.90	7.10	38.30
		FC-MW-05-S	6 to 16	48.03	45.50	10.61	37.42	10.17	37.86
		FC-MW-06-S	9 to 19	50.66	48.48	12.6	38.06	12.21	38.45
		FC-MW-07-S	5 to 15	48.34	45.89	10.61	37.73	10.21	38.13
		FC-MW-08-S	2 to 12	45.18	*43.22	6.27	38.91	5.89	39.29
6A	INTERMEDIATE	FC-MW-01I	48 to 58	47.35	*46.41	8.92	38.43	8.56	38.79
		FC-MW-04I	40 to 50	45.31	*44.37	7.41	37.9	7.00	38.31
		FC-MW-05I	48 to 58	47.35	45.43	9.93	37.42	9.51	37.84
		FC-MW-07I	48 to 58	48.25	46.13	10.57	37.68	10.13	38.12
10B	SHALLOW	ET-MW01S	7 to 17	47.53	45.17	10.69	36.84	10.26	37.27
		ET-MW02S	7 to 17	46.95	44.52	10.22	36.73	9.81	37.14
		ET-MW03S	7 to 17	47.81	45.24	11.07	36.74	10.71	37.10

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

Site	Type	Monitoring Well ID	Screened Interval Depth (feet) [1]	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)
						9/30/2009		11/18/2009	
Southern Area	SHALLOW	SA-MW-126S	5 to 15	39.79	37.36	5.4	34.39	5.02	34.77
		SA-MW-127S	5 to 15	40.57	38.26	7.34	33.23	6.86	33.71
		SA-MW-128S	7 to 17	40.54	38.19	9.47	31.07	9.12	31.42
		SA-MW-129S	19.5 to 29.5	51.92	49.75	22.5	29.42	22.45	29.47
		SA-MW-130S	9 to 19	48.60	45.83	13.85	34.75	13.63	34.97
		SA-MW-131S	4 to 14	38.59	36.20	8.92	29.67	8.58	30.01
		SA-MW-132S	4 to 14	36.75	34.09	6.16	30.59	5.82	30.93
		SA-PZ-118S	6 to 16	31.13	29.23	5.21	25.92	5.08	26.05
		SA-PZ-120S	8 to 18	32.35	* 30.34	6.51	25.84	6.39	25.96
		SA-PZ-122S	12 to 22	43.75	41.11	15.18	28.57	15.01	28.74
		SA-PZ-123S	7 to 17	36.96	34.47	9.36	27.6	9.19	27.77
Southern Area	INTERMEDIATE	SA-MW-126I	40 to 50	39.97	37.52	5.52	34.45	5.14	34.83
		SA-MW-127I	36 to 46	40.79	38.43	7.55	33.24	7.08	33.71
		SA-MW-128I	30 to 40	40.96	38.62	9.93	31.03	9.64	31.32
		SA-MW-129I	50 to 60	52.16	49.92	22.77	29.39	22.69	29.47
		SA-MW-130I	36 to 46	48.33	45.91	13.64	34.69	13.43	34.90
		SA-MW-131I	30 to 40	38.24	36.03	8.58	29.66	8.24	30.00
		SA-MW-132I	27 to 37	36.76	34.02	6.17	30.59	5.84	30.92
		SA-PZ-118I	50 to 60	31.68	29.22	5.75	25.93	5.91	25.77
		SA-PZ-122I	39 to 49	43.57	41.20	14.95	28.62	14.77	28.80
		SA-PZ-123I1	32 to 42	37.51	34.75	9.88	27.63	9.71	27.80
Southern Area	DEEP	SA-MW-126D	74 to 84	40.04	37.37	7.25	32.79	7.18	32.86
		SA-MW-127D	68 to 78	40.57	38.46	8.73	31.84	8.68	31.89
		SA-MW-128D	58 to 68	40.64	38.34	9.85	30.79	9.81	30.83
		SA-MW-129D	80 to 90	52.19	49.92	22.69	29.5	22.64	29.55
		SA-MW-131D	60 to 70	37.82	35.84	7.98	29.84	7.80	30.02
		SA-PZ-122D	122 to 132	43.47	41.31	14.11	29.36	14.09	29.38
		SA-PZ-123I	70 to 80	38.02	35.16	10.49	27.53	9.71	28.31

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

Site	Type	Monitoring Well ID	Screened Interval Depth (feet) (1)	Reference Elevation TOC (PVC) (feet)	Ground Surface Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)	Depth to Groundwater (TOC) (feet)	Water Level Elevation (feet)
						9/30/2009		11/18/2009	
Southern Area	Surface Water	Staff Gauge 01 WS P	**3.33**	32.38[1]		1.6	30.65	1.85	30.90
		Staff Gauge 02 ES P	**3.33**	32.41[1]		1.6	30.68	1.87	30.95
		BM ES Conn Ave	**Concrete**	30.44				5.11	25.33

NOTES:
TOC = Top of Casing
PVC = Polyvinyl Chloride Well Casing
Bold value is the length of staff gauges
* Ground surface elevation is estimated.
[1] Note bottom of gauge

TABLE 3-1
TEMPORARY MONITORING WELL CONSTRUCTION DETAILS
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Temporary Monitoring Well	Depth of Groundwater Sample (feet)	Total Depth (feet)	Soil Boring	Analytical Parameters
SA-TW301-15	11-15	50	No	VOCs
SA-TW301-30	26-30			VOCs
SA-TW301-50	46-50			VOCs
SA-TW302-15	11-15	55	Yes	VOCs
SA-TW302-30	26-30			VOCs
SA-TW302-54	50-54			VOCs
SA-TW303-15	11-15	54	No	VOCs
SA-TW303-30	26-30			VOCs
SA-TW303-54	50-54			VOCs
SA-TW304-15	11-15	50	Only 46-50'	VOCs
SA-TW304-30	26-30			VOCs
SA-TW304-50	46-50			VOCs
SA-TW305-15	11-15	60	Yes	VOCs
SA-TW305-30	26-30			VOCs
SA-TW305-55	51-55			VOCs
SA-TW306-15	11-15	54	No	VOCs
SA-TW306-30	26-30			VOCs
SA-TW306-51	47-51			VOCs
SA-TW307-15	11-15	55	Yes	VOCs
SA-TW307-30	26-30			VOCs
SA-TW307-49	45-49			VOCs
SA-TW308-15	11-15	49	No	VOCs
SA-TW308-30	26-30			VOCs
SA-TW308-49	45-49			VOCs
SA-TW309-15	11-15	55	Yes	VOCs
SA-TW309-30	26-30			VOCs
SA-TW309-54	50-54			VOCs
SA-TW310-1015	10-15	55	Yes	VOCs
SA-TW310-24-29	24-29			VOCs
SA-TW310-4853	48-53			VOCs
SA-TW311-1015	10-15	53	Yes	VOCs
SA-TW311-23-28	23-28			VOCs
SA-TW311-4651	46-51			VOCs
SA-TW312-0712	7-12	46	Yes	VOCs
SA-TW312-2025	20-25			VOCs
SA-TW312-4146	41-46			VOCs
SA-TW313-0914	9-14	48	Yes	VOCs
SA-TW313-2025	20-25			VOCs
SA-TW313-4247	42-47			VOCs
SA-TW314-0712	7-12	44	Yes	VOCs
SA-TW314-2025	20-25			VOCs
SA-TW314-3944	39-44			VOCs
SA-TW315-0813	8-13	45	Yes	VOCs
SA-TW315-2025	20-25			VOCs
SA-TW315-4045	40-45			VOCs
SA-TW316-0712	7-12	37	Yes	VOCs
SA-TW316-2025	20-25			VOCs
SA-TW316-3237	32-37			VOCs
SA-TW317-1015	10-15	46	No	VOCs
SA-TW317-2025	20-25			VOCs
SA-TW317-39.544.4	39.5-44.5			VOCs

TABLE 3-2
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	47.50	46.56*
FC-MW01I	7/25/1994	58	48 - 58	47.35	46.41*
FC-MW04S	7/22/1994	13	3 - 13	45.4	44.46*
FC-MW04I	7/26/1994	50	40 - 50	45.32	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	45.18	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 3-3
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-PZ-118S	5/3/2007	16	6 - 16	31.13	29.23
SA-PZ-118I	5/3/2007	60	50 - 60	31.68	29.22
SA-PZ-120S	5/4/2007	18	8 - 18	32.35	30.34*
SA-PZ-122S	12/21/2007	22	12 - 22	43.75	41.11
SA-PZ-122I	12/20/2007	49	39 - 49	43.57	41.20
SA-PZ-122D	12/21/2007	132	122 - 132	43.47	41.31
SA-PZ-123S	1/2/2008	17	7 - 17	36.96	34.47
SA-PZ-123I1	1/2/2008	42	32 - 42	37.51	34.75
SA-PZ-123I	1/3/2008	80	70 - 80	38.02	35.16
SA-MW-126S	12/6/2007	15	5 - 15	39.79	37.36
SA-MW-126I	12/6/2007	50	40 - 50	39.97	37.52
SA-MW-126D	12/4/2007	84	74 - 84	40.04	37.37
SA-MW-127S	12/11/2007	15	5 to 15	40.57	38.26
SA-MW-127I	12/11/2007	46	36 - 46	40.79	38.43
SA-MW-127D	12/10/2007	78	68 - 78	40.57	38.46
SA-MW-128S	12/14/2007	17	7 - 17	40.54	38.19
SA-MW-128I	12/13/2007	40	30 - 40	40.96	38.62
SA-MW-128D	12/12/2007	68	58 -68	40.64	38.34
SA-MW-129S	12/19/2007	29.5	19.5 - 29.5	51.92	49.75
SA-MW-129I	12/19/2007	60	50 - 60	52.16	49.92
SA-MW-129D	12/18/2007	90	80 - 90	52.19	49.92
SA-MW-130S	9/10/2009	19	9-19	48.6	45.83
SA-MW-130I	9/9/2009	50	36-46	48.33	45.91
SA-MW-131S	9/2/2009	14	4-14	38.59	36.2
SA-MW-131I	9/2/2009	40	30-40	38.24	36.03
SA-MW-131D	9/1/2009	70	60-70	37.82	35.84
SA-MW-132S	9/8/2009	14	4-14	36.75	34.09
SA-MW-132I	9/3/2009	37	27-37	36.76	34.02
Top Staff Gague 1 WS PRSC	9/29/2009	**3.33**		32.38[1]	
Top Staff Gague 2 ES PRSC	9/29/2009	**3.33**		32.41[1]	
Benchmark ES Conn AVE HDWL	NA	NA		30.44	

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 3-4
SITE 2 - FIRE TRAINING AREA
MONITORING WELL CONSTRUCTION DETAILS
NWIRP CALVERTON, NEW YORK

Monitoring Well	Installation Date	Total Depth (feet)	Screened Interval Depth (feet)	Reference Elevation TOC (PVC) (feet)	Top Concrete Pad Elevation (feet)
FT-MW-01I	7/13/1994	78	68 - 78	64.16	62.11
FT-MW-01S	6/30/1994	28.5	18.5 - 28.5	63.88	62.12
FT-MW-02I	7/20/1994	80	70 - 80	55.57	53.26
FT-MW-02S	7/5/1994	20.5	10.5 - 20.5	55.47	53.34
FT-MW-03	6/30/1994	31.5	21.5 - 31.5	66.87	64.38
FT-MW-04	7/1/1994	27	17 - 27	61.33	59.95
FT-MW-05S	7/7/1994	17.5	7.5 - 17.5	51.48	49.37
FT-MW-05I	7/19/1994	58	48 - 58	51.92	49.87
FT-MW-06S	7/7/1994	27	17 - 27	61.28	59.44
FT-MW-06I	7/14/1994	75	65 - 75	61.99	60.38
FT-MW-07S	7/7/1994	35	25 - 35	70.3	68.33
FT-MW-08S	6/7/1997	14	3 - 14	47.92	NA
FT-MW-08I	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 3-5
SLUG TEST RESULTS
SITES 6A AND SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Well ID	Slug Tests	Test Date	Response Type	Solution Method	Hydraulic Conductivity (ft/day)						Geomean of Rising Head Ks
					Fall 1	Rise 1	Fall 2	Rise 2	Fall 3	Rise 3	
FC-MW-01I	Fall, Rise	9/14/2009	Straight Line	Bouwer-Rice	76	95					95
FC-MW-01S	Fall, Rise	9/14/2009	Straight Line	Bouwer-Rice	434	243					243
FC-MW-04I	Fall, Rise	9/14/2009	Straight Line	Bouwer-Rice	45	110					110
FC-MW-04S	Rise	9/14/2009	Straight Line	Bouwer-Rice		230					230
FC-MW-05I	Fall, Rise	9/14/2009	Straight Line	Bouwer-Rice	35	33					33
FC-MW-05S	Fall, Rise	9/14/2009	Straight Line	Bouwer-Rice	349	260					260
FC-MW-07I	Fall, Rise, Fall2, Rise2	9/16/2009	Oscillatory	Springer-Gelhar	220	232	237	234			233
FC-MW-07S	Rise, Rise2, Rise3	9/16/2009	Straight Line	Bouwer-Rice		274		263		252	263
SA-PZ-118I	Fall, Rise, Fall2, Rise2	9/3/2009	Oscillatory	Springer-Gelhar	115	127	121	116			121
SA-PZ-118S	Rise	9/3/2009	Straight Line	Bouwer-Rice		346					346
SA-PZ-123I	Rise	9/3/2009	Straight Line	Bouwer-Rice		359					359
SA-PZ-123I1	Rise	9/3/2009	Oscillatory	Springer-Gelhar		94					94
SA-PZ-123S	Rise	9/3/2009	Straight Line	Bouwer-Rice		406					406
SA-MW-127D	Fall, Rise	9/10/2009	Oscillatory	Springer-Gelhar	59	61					61
SA-MW-127D REDO	Fall, Rise, Rise2	9/16/2009	Oscillatory	Springer-Gelhar	55	62		52			57
SA-MW-127I	Fall, Rise	9/10/2009	Oscillatory	Springer-Gelhar	80	87					87
SA-MW-127S	Fall, Rise	9/10/2009	Straight Line	Bouwer-Rice	499	389					389
SA-MW-128D	Fall, Rise	9/9/2009	Straight Line	Bouwer-Rice	117	131					131
SA-MW-128I	Fall, Rise	9/9/2009	Oscillatory	Springer-Gelhar	61	106					106
SA-MW-128S	Fall	9/9/2009	Straight Line	Bouwer-Rice	343						343
SA-MW-128S REDO	Fall, Rise, Fall2, Rise2, Rise3	9/16/2009	Straight Line	Bouwer-Rice	367	611	487	629		601	613
SA-MW-130I	Fall, Rise, Fall2, Rise 2	9/15/2009	Oscillatory	Springer-Gelhar	76	83	80	50			65
SA-MW-130S	Rise, Rise2, Rise3	9/15/2009	Straight Line	Bouwer-Rice		374		505		622	490
SA-MW-131D	Fall, Rise, Fall2, Rise2	9/15/2009	Oscillatory	Springer-Gelhar	127	155	111	147			151
SA-MW-131I	Fall, Rise, Fall2, Rise2	9/15/2009	Oscillatory	Springer-Gelhar	81	78	89	104			90
SA-MW-131S	Rise, Rise2	9/15/2009	Straight Line	Bouwer-Rice		424		427			425
SA-MW-132I	Fall, Rise, Fall2, Rise2	9/15/2009	Oscillatory	Springer-Gelhar	77	92	85	93			92
SA-MW-132S	Fall, Rise, Fall2, Rise2	9/15/2009	Straight Line	Bouwer-Rice	241	310	228	*802*			310

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-MW-01S (Jan-08)	FT-MW-01S (Sept-09)	FT-MW-01I (Jan-08)	FT-MW-01I (Sept-09)	FT-MW-02S (Jan-08)	FT-MW-02S (Sept-09)	FT-MW-02S (DUP) (Sept-09)	FT-MW-02I (Jan-08)	FT-MW-02I (Sept-09)	FT-MW-03 (Jan-08)	FT-MW-03 (Sept-09)	FT-MW-04 (Jan-08)	FT-MW-04 (Sept-09)	FT-MW-05S (Jan-08)	FT-MW-05S (Sept-09)	FT-MW-05I (Jan-08)	FT-MW-05I (Sept-09)	FT-MW-06S (Jan-08)	FT-MW-06S (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**												
1,1-Dichloroethene	75-35-4	7	5																			
1,2-Dichlorobenzene	95-50-1		5					**21**	**5.2 J**	**5.3 J**												
1,2,4-Trichlorobenzene	120-82-1	70	5						2.2 J													
1,4-Dichlorobenzene	106-46-7		5					**8**	2.0 J	1.6 J												
2-Butanone	78-93-3		50					6	10 J	8.1 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								0.8 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**												
Isopropylbenzene	98-82-8		5					**8**	4.8 J	**5 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					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**												
o-Xylene	95-47-6		5					**47**	4.7 J	**5.2 J**												
Xylenes (total)	1330-20-7	10,000	5					**170**	**23 J**	**25 J**												
Naphthalene	91-20-3		50						41 J	41 J										1.8 J		
Methane, Ethene, Ethane (µg/l)																						
Methane	74-82-8			NA	NA	NA	NA	9,100	240 J	340 J	8.2 J		NA	NA	NA	NA	30	2 J	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-MW-06I (Jan-08)	FT-MW-06I (Sept-09)	FT-MW-07 (Jan-08)	FT-MW-07 (DUP) (Jan-08)	FT-MW-07 (Sept-09)	FT-MW-08S (Jan-08)	FT-MW-08S (Sept-09)	FT-MW-08I (Jan-08)	FT-MW-08I (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		5						0.4 J			
1,2,4-Trichlorobenzene	120-82-1	70	5									
1,4-Dichlorobenzene	106-46-7		5									
2-Butanone	78-93-3		50									
Chlorobenzene	108-90-7	100	5									
Chloromethane	74-87-3		5									
Chloroform	67-66-3	80	5	0.6 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	5									
Naphthalene	91-20-3		50									
Methane, Ethene, Ethane (µg/l)												
Methane	74-82-8			NA	NA	NA	NA	NA	960	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 4-2
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-MW01I (Jan-08)	FC-MW01I (Aug-08)	FC-MW01I (Sept-09)	FC-MW02S (Jan-08)	FC-MW02S (DUP) (Jan-08)	FC-MW02S (Aug-08)	FC-MW02S (DUP) (Aug-08)	FC-MW02I (Jan-08)	FC-MW02I (Aug-08)	FC-MW03S (Jan-08)	FC-MW03S (Aug-08)	FC-MW04S (Jan-08)	FC-MW04S (Aug-08)	FC-MW04S (Sept-09)	FC-MW04I (Jan-08)	FC-MW04I (Aug-08)
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	0.7 J								
1,1-Dichloroethene	75-35-4	7	5							0.7 J												
2-Butanone	78-93-3		5									1 J										
Chloroethane	75-00-3		5							4 J	4 J	3	3									
Chloromethane	74-87-3		5																			
Ethylbenzene	100-41-4	700	5							0.4 J	0.5 J											
Freon-113	76-13-1		50											1 J							0.4 J	
Methylcyclohexane	108-87-2		50							1 J	1 J	0.4 J										
Tetrachloroethene	127-18-4	5	5																			
Toluene	108-88-3	1000	5							3 J	3 J	0.5 J	0.5 J									
m+p-xylenes	1330-20-7		5							4 J	**5 J**											
o-Xylene	95-47-6		5							**5**	**5**	0.4 J	0.4 J									
Xylenes (total)	1330-20-7	10,000	5							**9 J**	**10 J**	0.4 J	0.4 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	4	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-MW04I (Sept-09)	FC-MW04I (DUP) (Sept-09)	FC-MW05S (Jan-08)	FC-MW05S (Aug-08)	FC-MW05S (Sept-09)	FC-MW05S (DUP) (Sept-09)	FC-MW05I (Jan-08)	FC-MW05I (Aug-08)	FC-MW05I (Sept-09)	FC-MW06S (Jan-08)	FC-MW06S (Aug-08)	FC-MW06S (Sept-09)	FC-MW07S (Jan-08)	FC-MW07S (Aug-08)	FC-MW07S (Sept-09)	FC-MW07I (Sept-09)	FC-MW08S (Jan-08)	FC-MW08S (Aug-08)	FC-MW08S (Sept-09)
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			0.8 J												
1,1-Dichloroethene	75-35-4	7	5																			
2-Butanone	78-93-3		5																			
Chloroethane	75-00-3		5				**5**										1 J					
Chloromethane	74-87-3		5							0.8 J						0.6 J						
Ethylbenzene	100-41-4	700	5																			
Freon-113	76-13-1		50							1 J												
Methylcyclohexane	108-87-2		50																			
Tetrachloroethene	127-18-4	5	5										**12**	0.9 J								
Toluene	108-88-3	1000	5																			
m+p-xylenes	1330-20-7		5																			
o-Xylene	95-47-6		5																			
Xylenes (total)	1330-20-7	10,000	5																			
Methane, Ethene, Ethane (µg/l)																						
Methane	74-82-8			0.3 J	NA	NA	NA		NA	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-MW02S (Jan-08)	ET-MW02S (Aug-08)	ET-MW02S (Sept-09)	ET-MW03S (Jan-08)	ET-MW03S (DUP) (Jan-08)	ET-MW03S (Aug-08)	ET-MW03S (Sept-09)
Volatile Organic Compounds (µg/l)													
1,1,1-Trichloroethane	71-55-6	200	5				3 J	0.4 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 = 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

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

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW-301-15 (Mar-09)	SA-TW-301-30 (Mar-09)	SA-TW-301-50 (Mar-09)	SA-TW-301-50 DUP (Mar-09)	SA-TW-302-15 (Mar-09)	SA-TW-302-30 (Mar-09)	SA-TW-302-54 (Mar-09)	SA-TW-303-15 (Mar-09)	SA-TW-303-30 (Mar-09)	SA-TW-303-54 (Mar-09)	SA-TW-304-15 (Mar-09)	SA-TW-304-30 (Mar-09)	SA-TW-304-50 (Mar-09)	SA-TW-304-50 DUP (Mar-09)	SA-TW-305-15 (Mar-09)	SA-TW-305-30 (Mar-09)	SA-TW-305-55 (Mar-09)	SA-TW-306-15 (Mar-09)	SA-TW-306-30 (Mar-09)
Volatile Organic Compounds (µg/L)																						
1,1,1-Trichloroethane	71-55-6	200	5																			
1,1-Dichloroethane	75-34-3	NE	5							1.3 J								1.6 J	1.5 J			
1,1-Dichloroethene	75-34-4	7	5																			
1,2,3-Trichlorobenzene	87-61-6	NE	5	1.3 J																		
1,2,4-Trichlorobenzene	120-82-1	70	5	**5.1**																		
1,4-Dichlorobenzene	106-46-7	NE	5																2.5 J			
Chloroethane	75-00-3	NE	5																			
Carbon disulfide	75-15-0	NE	50											2.1 J								
Toluene	108-88-3	1,000	5																			
Naphthalene	91-20-3	NE	NE	5.3 B																		
n-Butyl Benzene	104-51-8	NE	5																			
Methylene Chloride	75-09-2	NE	5							0.81 JB												
Acetone	67-64-1	NE	NE																			

NOTES:
µg/L = micrograms per liter
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
NE = Not Established
B = Analyte detected in associated blank samples
D = Diluted Value
JB = Estimated value and detected in associated blank samples
J = Estimated Value
Blank cells = Compound not detected
TW301-309 chloroethane values were not reported
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 butare considered a lab contaminants

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

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW-306-51 (Mar-09)	SA-TW-307-15 (Mar-09)	SA-TW-307-30 (Mar-09)	SA-TW-307-49 (Mar-09)	SA-TW-308-15 (Mar-09)	SA-TW-308-30 (Mar-09)	SA-TW-308-49 (Mar-09)	SA-TW-309-15 (Mar-09)	SA-TW-309-30 (Mar-09)	SA-TW-309-54 (Mar-09)	SA-TW-310-15 (Sept-09)	SA-TW-310-29 (Sept-09)	SA-TW-310-53 (Sept-09)	SA-TW-311-15 (Sept-09)	SA-TW-311-28 (Sept-09)	SA-TW-311-51 (Sept-09)	SA-TW-312-12 (Sept-09)	SA-TW-312-25 (Sept-09)	SA-TW-312-46 (Sept-09)
Volatile Organic Compounds (µg/L)																						
1,1,1-Trichloroethane	71-55-6	200	5																**54**			**280**
1,1-Dichloroethane	75-34-3	NE	5	3.1 J			1.8 J			4.2 J									**200**			**1200 J**
1,1-Dichloroethene	75-34-4	7	5																**17**			**55**
1,2,3-Trichlorobenzene	87-61-6	NE	5		1.2 J																	
1,2,4-Trichlorobenzene	120-82-1	70	5																			
1,4-Dichlorobenzene	106-46-7	NE	5																			
Chloroethane	75-00-3	NE	5																			**91**
Carbon disulfide	75-15-0	NE	50																			
Toluene	108-88-3	1,000	5																			
Naphthalene	91-20-3	NE	NE																			
n-Butyl Benzene	104-51-8	NE	5																			
Methylene Chloride	75-09-2	NE	5									0.68 J										
Acetone	67-64-1	NE	NE												9.0 J	6.7 J			5.1 J			

NOTES:
µg/L = micrograms per liter
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
NE = Not Established
B = Analyte detected in associated blank samples
D = Diluted Value
JB = Estimated value and detected in associated blank samples
J = Estimated Value
Blank cells = Compound not detected
TW301-309 chloroethane values were not reported
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 butare considered a lab contaminants

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

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	SA-TW-313-14 (Sept-09)	SA-TW-313-25 (Sept-09)	SA-TW-313-47 (Sept-09)	SA-TW-313-47 (DUP) (Sept-09)	SA-TW-314-12 (Sept-09)	SA-TW-314-25 (Sept-09)	SA-TW-314-44 (Sept-09)	SA-TW-315-13 (Sept-09)	SA-TW-315-25 (Sept-09)	SA-TW-315-45 (Sept-09)	SA-TW-316-12 (Sept-09)	SA-TW-316-25 (Sept-09)	SA-TW-316-37 (Sept-09)	SA-TW-317-15 (Sept-09)	SA-TW-317-25 (Sept-09)	SA-TW-317-44.5 (Sept-09)
Volatile Organic Compounds (µg/L)																			
1,1,1-Trichloroethane	71-55-6	200	5			2.2 J	2 J			**12**			2.6 J			**51**			
1,1-Dichloroethane	75-34-3	NE	5			**12**	**13**			**94**			**62**			**240 J**			**6.3**
1,1-Dichloroethene	75-34-4	7	5			1.3 J	1.7 J			3.9 J			3.7 J			**12**			
1,2,3-Trichlorobenzene	87-61-6	NE	5																
1,2,4-Trichlorobenzene	120-82-1	70	5													2.3 J			
1,4-Dichlorobenzene	106-46-7	NE	5							1.9 J									
Chloroethane	75-00-3	NE	5							**14**						2.9 J			
Carbon disulfide	75-15-0	NE	50																
Toluene	108-88-3	1,000	5					0.75 J		0.74 J									
Naphthalene	91-20-3	NE	NE																
n-Butyl Benzene	104-51-8	NE	5																
Methylene Chloride	75-09-2	NE	5		1.1 J	0.95 J													0.90 J
Acetone	67-64-1	NE	NE		4.8 J														5.0 J

NOTES:
µg/L = micrograms per liter
MCL = Maximum contaminant level
NYSDOH = New York State Department of Health
NE = Not Established
B = Analyte detected in associated blank samples
D = Diluted Value
JB = Estimated value and detected in associated blank samples
J = Estimated Value
Blank cells = Compound not detected
TW301-309 chloroethane values were not reported
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 butare considered a lab contaminants

TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-MW-126S (Jan-08)	SA-MW-126S (Aug-08)	SA-MW-126S (Sept-09)	SA-MW-126I (Jan-08)	SA-MW-126I (Aug-08)	SA-MW-126I (Sept-09)	SA-MW-126D (Jan-08)	SA-MW-126D (Aug-08)	SA-MW-126D (Sept-09)	SA-MW-127S (Jan-08)	SA-MW-127S (DUP) (Jan-08)	SA-MW-127S (Aug-08)	SA-MW-127S (Sept-09)	SA-MW-127I (Jan-08)	SA-MW-127I (Aug-08)	SA-MW-127I (Sept-09)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																					
1,1,1-Trichloroethane	71-55-6	200	5		11	0.4 J													**94**	**94**	**61**
1,1-Dichloroethane	75-34-3		5		47	1													**410**	**470**	**270 J**
1,1-Dichloroethene	75-35-4	7	5		25														**30**	**27**	**20**
1,2-Dichlorobenzene	95-50-1		5		14														0.7 J	3	
cis-1,2-Dichloroethene	156-59-2	70	5																	0.3 J	
1,2-Dichloroethane	107-06-2	5	5		910														0.6 J		
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110														2 J	4	2.7 J
1,3-Dichlorobenzene	541-73-1		5		71														0.7 J	3	
1,4-Dichlorobenzene	106-46-7		5		15														3 J	**13**	3.8 J
2-Butanone	78-93-3																				
2-Hexanone	591-78-6		50																		
Benzene	71-43-2	5	5	10	130														0.9 J	1	
Carbon disulfide	75-15-0		50		0.92							2 J									
Chlorobenzene	108-90-7	100	5	400	64														0.5 J	1	
Chloroethane	75-00-3		5																**51**	**63**	**29**
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5		28																
Isopropylbenzene	98-82-8		50																	1	
Toluene	108-88-3	1,000	5	6,000	9.8	0.5 J	1								2 J	2					
Vinyl Chloride	75-01-4	2	2																		
Naphthalene	91-20-3		10																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	35
Ethane	74-84-0					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 J	NA	NA	

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate
MW = Monitoring Well
PZ = Piezometer
SW = Surface Water
SD = Sediment
NYSDOH = New York State Department of Health
NYSDEC- New York State Department of Environmental Conservation
SWQS = Surface Water Quality Standards
ONL SWV = Oakridge National Laboratory Surface Water Values
J = Estmated Value
Blank cells = No criteria or not detected
CAS = Chemical Abstracts Service
MCL = Maximum contaminat level
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

3- 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

4-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

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

TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-MW-127D (Jan-08)	SA-MW-127D (Aug-08)	SA-MW-127D (Sept-09)	SA-MW-128S (Jan-08)	SA-MW-128S (Aug-08)	SA-MW-128S (Sept-09)	SA-MW-128I (Jan-08)	SA-MW-128I (Aug-08)	SA-MW-128I (Sept-09)	SA-MW-128D (Jan-08)	SA-MW-128D (Aug-08)	SA-MW-128D (Sept-09)	SA-MW-128D (DUP) (Sept-09)	SA-MW-129S (Jan-08)	SA-MW-129S (Aug-08)	SA-MW-129S (DUP) (Aug-08)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																					
1,1,1-Trichloroethane	71-55-6	200	5		11							**48**	**35**	2.4 J							
1,1-Dichloroethane	75-34-3		5		47	0.6 J						**160**	**170**	**33**	**5**	**7**	2.9 J	3.1 J			
1,1-Dichloroethene	75-35-4	7	5		25							**18**	**12**	2.5 J		0.4 J					
1,2-Dichlorobenzene	95-50-1		5		14																
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5		910																
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110							1	1								
1,3-Dichlorobenzene	541-73-1		5		71																
1,4-Dichlorobenzene	106-46-7		5		15							0.9 J	0.7 J								
2-Butanone	78-93-3																				
2-Hexanone	591-78-6		50																		
Benzene	71-43-2	5	5	10	130																
Carbon disulfide	75-15-0		50		0.92																
Chlorobenzene	108-90-7	100	5	400	64																
Chloroethane	75-00-3		5									**6**	**6**								
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5		28										0.4 J						
Isopropylbenzene	98-82-8		50																		
Toluene	108-88-3	1,000	5	6,000	9.8																
Vinyl Chloride	75-01-4	2	2																		
Naphthalene	91-20-3		10																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8					NA	NA		NA	NA	2	NA	NA	27	NA	NA	13	NA	NA	NA	NA
Ethane	74-84-0					NA	NA		NA	NA		NA	NA		NA	NA		NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate
MW = Monitoring Well
PZ = Piezometer
SW = Surface Water
SD = Sediment
NYSDOH = New York State Department of Health
NYSDEC- New York State Department of Environmental Conservation
SWQS = Surface Water Quality Standards
ONL SWV = Oakridge National Laboratory Surface Water Values
J = Estmated Value
Blank cells = No criteria or not detected
CAS = Chemical Abstracts Service
MCL = Maximum contaminat level
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

3- 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

4-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

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

TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-MW-129S (Sept-09)	SA-MW-129I (Jan-08)	SA-MW-129I (Aug-08)	SA-MW-129I (Sept-09)	SA-MW-129D (Jan-08)	SA-MW-129D (Aug-08)	SA-MW-129D (Sept-09)	SA-MW-130S (Sept-09)	SA-MW-130I (Sept-09)	SA-MW-131S (Sept-09)	SA-MW-131I (Sept-09)	SA-MW-131D (Sept-09)	SA-MW-132S (Sept-09)	SA-MW-132I (Sept-09)	SA-MW-132I (DUP) (Sept-09)	SA-PZ-118S (Jan-08)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																					
1,1,1-Trichloroethane	71-55-6	200	5		11																
1,1-Dichloroethane	75-34-3		5		47	1.4 J	2 J	4	2.3 J	0.9 J	3						**15**		**5.4**	**5.1**	4 J
1,1-Dichloroethene	75-35-4	7	5		25					0.5 J	0.4 J						1.5 J			1.1 J	1 J
1,2-Dichlorobenzene	95-50-1		5		14																
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5		910																
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110																
1,3-Dichlorobenzene	541-73-1		5		71																
1,4-Dichlorobenzene	106-46-7		5		15																
2-Butanone	78-93-3																				
2-Hexanone	591-78-6		50						6.9 J												
Benzene	71-43-2	5	5	10	130																
Carbon disulfide	75-15-0		50		0.92																
Chlorobenzene	108-90-7	100	5	400	64																
Chloroethane	75-00-3		5							0.8 J											
Chloromethane	74-87-3		5																		
Chloroform	67-66-3	80	5		28													2.9 J			
Isopropylbenzene	98-82-8		50																		
Toluene	108-88-3	1,000	5	6,000	9.8																
Vinyl Chloride	75-01-4	2	2																		
Naphthalene	91-20-3		10																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8					NA	NA	NA	NA	NA	NA	NA	9	0.2 J	7	4	12	7	18	NA	NA
Ethane	74-84-0					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate
MW = Monitoring Well
PZ = Piezometer
SW = Surface Water
SD = Sediment
NYSDOH = New York State Department of Health
NYSDEC- New York State Department of Environmental Conservation
SWQS = Surface Water Quality Standards
ONL SWV = Oakridge National Laboratory Surface Water Values
J = Estmated Value
Blank cells = No criteria or not detected
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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

3- 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

4-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

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TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-PZ-118S (Aug-08)	SA-PZ-118S (Sept-09)	SA-PZ-118S (DUP) (Sept-09)	SA-PZ-118I (Jan-08)	SA-PZ-118I (Aug-08)	SA-PZ-118I (Sept-09)	SA-PZ-120S (Jan-08)	SA-PZ-120S (Aug-08)	SA-PZ-120S (Sept-09)	SA-PZ-122S (Jan-08)	SA-PZ-122S (Aug-08)	SA-PZ-122S (Sept-09)	SA-PZ-122I (Jan-08)	SA-PZ-122I (Aug-08)	SA-PZ-122I (Sept-09)	SA-PZ-122D (Jan-08)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																					
1,1,1-Trichloroethane	71-55-6	200	5		11																
1,1-Dichloroethane	75-34-3		5		47	**17**	2.5 J	2.1 J										1 J			
1,1-Dichloroethene	75-35-4	7	5		25	4															
1,2-Dichlorobenzene	95-50-1		5		14																
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5		910																
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110																
1,3-Dichlorobenzene	541-73-1		5		71																
1,4-Dichlorobenzene	106-46-7		5		15																
2-Butanone	78-93-3																				
2-Hexanone	591-78-6		50																		
Benzene	71-43-2	5	5	10	130																
Carbon disulfide	75-15-0		50		0.92																
Chlorobenzene	108-90-7	100	5	400	64																
Chloroethane	75-00-3		5																		
Chloromethane	74-87-3		5							3											
Chloroform	67-66-3	80	5		28																
Isopropylbenzene	98-82-8		50																		
Toluene	108-88-3	1,000	5	6,000	9.8																
Vinyl Chloride	75-01-4	2	2																		
Naphthalene	91-20-3		10																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8					NA	210 J	290 J	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

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate
MW = Monitoring Well
PZ = Piezometer
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SD = Sediment
NYSDOH = New York State Department of Health
NYSDEC- New York State Department of Environmental Conservation
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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

3- 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

4-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

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TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-PZ-122D (Aug-08)	SA-PZ-122D (Sept-09)	SA-PZ-123S (Jan-08)	SA-PZ-123S (Aug-08)	SA-PZ-123S (Sept-09)	SA-PZ-123I1 (Jan-08)	SA-PZ-123I1 (Aug-08)	SA-PZ-123I1 (DUP) (Aug-08)	SA-PZ-123I1 (Sept-09)	SA-PZ-123I (Jan-08)	SA-PZ-123I (Aug-08)	SA-PZ-123I (Sept-09)	SA-PZ-124 (Aug-08)	SA-PZ-124 (Sept-09)	SA-SW-124 (Aug-08)	SA-SW-124 (Mar-09)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																					
1,1,1-Trichloroethane	71-55-6	200	5		11							2	2		1 J	1					
1,1-Dichloroethane	75-34-3		5		47	2	1.8 J		0.7 J		**23**	**13**	**13**	**6.3**	**55**	**63**	**54**	4	**17**		
1,1-Dichloroethene	75-35-4	7	5		25						3 J	2	2		**7**	**10**	**6.9**		1.7 J		
1,2-Dichlorobenzene	95-50-1		5		14																
cis-1,2-Dichloroethene	156-59-2	70	5																		
1,2-Dichloroethane	107-06-2	5	5		910											0.3 J					
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110						1 J	1	1 J		0.7 J						4.9 J
1,3-Dichlorobenzene	541-73-1		5		71																
1,4-Dichlorobenzene	106-46-7		5		15							0.5 J	0.5 J		0.6 J	0.6 J					
2-Butanone	78-93-3																				
2-Hexanone	591-78-6		50																		
Benzene	71-43-2	5	5	10	130																
Carbon disulfide	75-15-0		50		0.92																
Chlorobenzene	108-90-7	100	5	400	64																
Chloroethane	75-00-3		5												0.7 J						
Chloromethane	74-87-3		5									3	3								
Chloroform	67-66-3	80	5		28																
Isopropylbenzene	98-82-8		50																		
Toluene	108-88-3	1,000	5	6,000	9.8																
Vinyl Chloride	75-01-4	2	2													**3**					
Naphthalene	91-20-3		10																		
Methane, Ethene, Ethane (µg/l)																					
Methane	74-82-8					NA	NA	NA	NA	5 J	NA	NA	NA	20 J	NA	NA	32 J	NA	NA	NA	NA
Ethane	74-84-0					NA	NA	NA	NA		NA	NA	NA		NA	NA		NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate
MW = Monitoring Well
PZ = Piezometer
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NYSDOH = New York State Department of Health
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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

3- 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

4-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

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TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-SW-124 (Sept-09)	SA-SD-124 (Aug-08)	SA-SD-124 (Mar-09)	SA-SD-124 (Sept-09)	SA-PZ-125 (Aug-08)	SA-PZ-125 (Sept-09)	SA-SW-125 (Aug-08)	SA-SW-125 (Mar-09)	SA-SW-125 (Sept-09)	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-SW-201 (Jan-08)	SA-SW-201 (Aug-08)	SA-SW-201 (Mar-09)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																						
1,1,1-Trichloroethane	71-55-6	200	5		11																	
1,1-Dichloroethane	75-34-3		5		47			**7.5**														
1,1-Dichloroethene	75-35-4	7	5		25																	
1,2-Dichlorobenzene	95-50-1		5		14																	
cis-1,2-Dichloroethene	156-59-2	70	5																			
1,2-Dichloroethane	107-06-2	5	5		910																	
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110																	
1,3-Dichlorobenzene	541-73-1		5		71																	
1,4-Dichlorobenzene	106-46-7		5		15																	
2-Butanone	78-93-3																					
2-Hexanone	591-78-6		50															11 J				
Benzene	71-43-2	5	5	10	130																	
Carbon disulfide	75-15-0		50		0.92					0.5 J												
Chlorobenzene	108-90-7	100	5	400	64																	
Chloroethane	75-00-3		5																			
Chloromethane	74-87-3		5																			
Chloroform	67-66-3	80	5		28																	
Isopropylbenzene	98-82-8		50																			
Toluene	108-88-3	1,000	5	6,000	9.8												39	2.5 J				
Vinyl Chloride	75-01-4	2	2																			
Naphthalene	91-20-3		10															3.7 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
Ethane	74-84-0					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate

MW = Monitoring Well
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SW = Surface Water
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NYSDOH = New York State Department of Health
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TABLE 4-5
ANALYTICAL DETECTION SUMMARY
SOUTHERN AREA
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs (1)	NYSDOH MCLs (2)	NYSDEC SWQS (3)	ONL SWV (4)	SA-SW-201 (Sept-09)	SA-SD-201 (Mar-09)	SA-SD-201 (Sept-09)	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-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)
Volatile Organic Compounds (µg/l and µg/kg for sediment samples)																			
1,1,1-Trichloroethane	71-55-6	200	5		11														
1,1-Dichloroethane	75-34-3		5		47														
1,1-Dichloroethene	75-35-4	7	5		25														
1,2-Dichlorobenzene	95-50-1		5		14														
cis-1,2-Dichloroethene	156-59-2	70	5																
1,2-Dichloroethane	107-06-2	5	5		910														
1,2,4-Trichlorobenzene	120-82-1	70	5	5	110														
1,3-Dichlorobenzene	541-73-1		5		71														
1,4-Dichlorobenzene	106-46-7		5		15														
2-Butanone	78-93-3																	7.1 J	
2-Hexanone	591-78-6		50																
Benzene	71-43-2	5	5	10	130														
Carbon disulfide	75-15-0		50		0.92														
Chlorobenzene	108-90-7	100	5	400	64														
Chloroethane	75-00-3		5																
Chloromethane	74-87-3		5																
Chloroform	67-66-3	80	5		28														
Isopropylbenzene	98-82-8		50																
Toluene	108-88-3	1,000	5	6,000	9.8														
Vinyl Chloride	75-01-4	2	2																
Naphthalene	91-20-3		10																
Methane, Ethene, Ethane (µg/l)																			
Methane	74-82-8					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

NOTES:

µg/L = micrograms per liter
µg/kg = micrograms per kilogram
MCL = Maximum contaminat level
NA = Not Analyzed
DUP = Duplicate
MW = Monitoring Well
PZ = Piezometer
SW = Surface Water
SD = Sediment
NYSDOH = New York State Department of Health
NYSDEC- New York State Department of Environmental Conservation
SWQS = Surface Water Quality Standards
ONL SWV = Oakridge National Laboratory Surface Water Values
J = Estmated Value
Blank cells = No criteria or not detected
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MCL = Maximum contaminat level
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

3- 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

4-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

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

TABLE 4-6
GROUNDWATER ANALYTICAL DETECTIONS
SOUTHERN AREA
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC-01 (Jan-08)	CA-PRSC-01 (June-08)	CA-PRSC-01 (Aug-08)	CA-PRSC-01 (Dec-08)	CA-PRSC-01 (Mar-09)	CA-PRSC-01 (June-09)	CA-PRSC-01 (Sept-09)	CA-PRSC-01 (Nov-09)	CA-PRSC-02-01 (Jan-08)	CA-PRSC-02-01 DUP (Jan-08)	CA-PRSC-02-01 (June-08)	CA-PRSC-02-01 (Aug-08)	CA-PRSC-02-01 (Dec-08)	CA-PRSC-02-01 DUP (Dec-08)	CA-PRSC-02-01 (Mar-09)	CA-PRSC-02-01 (June-09)	CA-PRSC-02-01 DUP (June-09)	CA-PRSC-02-01 (Sept-09)	CA-PRSC-02-01 (Nov-09)
Volatile Organic Compounds (µg/L)																						
1,1-Dichloroethane	75-34-3		5									**12**	**12**	**7**	**13**	**12**	**12**	**12**	**12**	**12**	**11**	**9.3**
1,1-Dichloroethene	75-35-4	7	5										5 J	4	4	5	5	3.3 J	3.6 J	3.5 J	**6**	4.4 J
1,2-Dichloroethane	107-06-2	5	5									0.5 J	0.6 J	0.6 J		0.4 J	0.4 J					
Chloromethane	74-87-3		5																			
cis-1,2-Dichloroethene	156-59-2		5									2 J	1 J	2	1 J	1	1		1.3 J	1.3 J		1.4 J
Isopropylbenzene	98-82-8		5																			
Methyl tert-butyl ether	1634-04-4		50																			
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												1 J								
Benzene	71-43-2	5	5													0.3 J	0.3 J					
Napthalene	91-20-3								3.4 J													2.4 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 lab contaminant

TABLE 4-6
GROUNDWATER ANALYTICAL DETECTIONS
SOUTHERN AREA
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC-02-02 (Jan-08)	CA-PRSC-02-02 (June-08)	CA-PRSC-02-02 (Aug-08)	CA-PRSC-02-02 (Dec-08)	CA-PRSC-02-02 (Mar-09)	CA-PRSC-02-02 (June-09)	CA-PRSC-02-02 (Sept-09)	CA-PRSC-02-02 (Nov-09)	CA-PRSC-02-03 (Jan-08)	CA-PRSC-02-03 (June-08)	CA-PRSC-02-03 DUP (June-08)	CA-PRSC-02-03 (Aug-08)	CA-PRSC-02-03 (Dec-08)	CA-PRSC-02-03 (Mar-09)	CA-PRSC-02-03 (June-09)	CA-PRSC-02-03 (Sept-09)	CA-PRSC-02-03 (Nov-09)	CA-PRSC-03 (Jan-08)	CA-PRSC-03 (June-08)
Volatile Organic Compounds (µg/L)																						
1,1-Dichloroethane	75-34-3		5				0.4 J		1.1 J	1.2 J												
1,1-Dichloroethene	75-35-4	7	5																			
1,2-Dichloroethane	107-06-2	5	5			0.8 J																
Chloromethane	74-87-3		5									0.8 J										
cis-1,2-Dichloroethene	156-59-2		5																			
Isopropylbenzene	98-82-8		5	2 J		1	0.6 J							0.4 J	1							
Methyl tert-butyl ether	1634-04-4		50									0.7 J										
Trichloroethene	79-01-6	5	5																			
Vinyl Chloride	75-01-4	2																				
Benzene	71-43-2	5	5																			
Napthalene	91-20-3																					

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 lab contaminant

TABLE 4-6
GROUNDWATER ANALYTICAL DETECTIONS
SOUTHERN AREA
(PECONIC RIVER SPORTSMANS CLUB)
NWIRP CALVERTON, NEW YORK

Chemical	CAS No.	Federal MCLs [1]	NYSDOH MCLs [2]	CA-PRSC-03 (Aug-08)	CA-PRSC-03 (Dec-08)	CA-PRSC-03 (Mar-09)	CA-PRSC-03 DUP (Mar-09)	CA-PRSC-03 (June-09)	CA-PRSC-03 (Sept-09)	CA-PRSC-03 DUP (Sept-09)	CA-PRSC-03 (Nov-09)	CA-PRSC-03 DUP (Novt-09)	CA-PRSC-04 (Jan-08)	CA-PRSC-04 (June-08)	CA-PRSC-04 (Aug-08)	CA-PRSC-04 (Dec-08)	CA-PRSC-04 (Mar-09)	CA-PRSC-04 (June-09)	CA-PRSC-04 (Sept-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																
Chloromethane	74-87-3		5																
cis-1,2-Dichloroethene	156-59-2		5																
Isopropylbenzene	98-82-8		5																
Methyl tert-butyl ether	1634-04-4		50																
Trichloroethene	79-01-6	5	5																
Vinyl Chloride	75-01-4	2																	
Benzene	71-43-2	5	5																
Napthalene	91-20-3																		

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

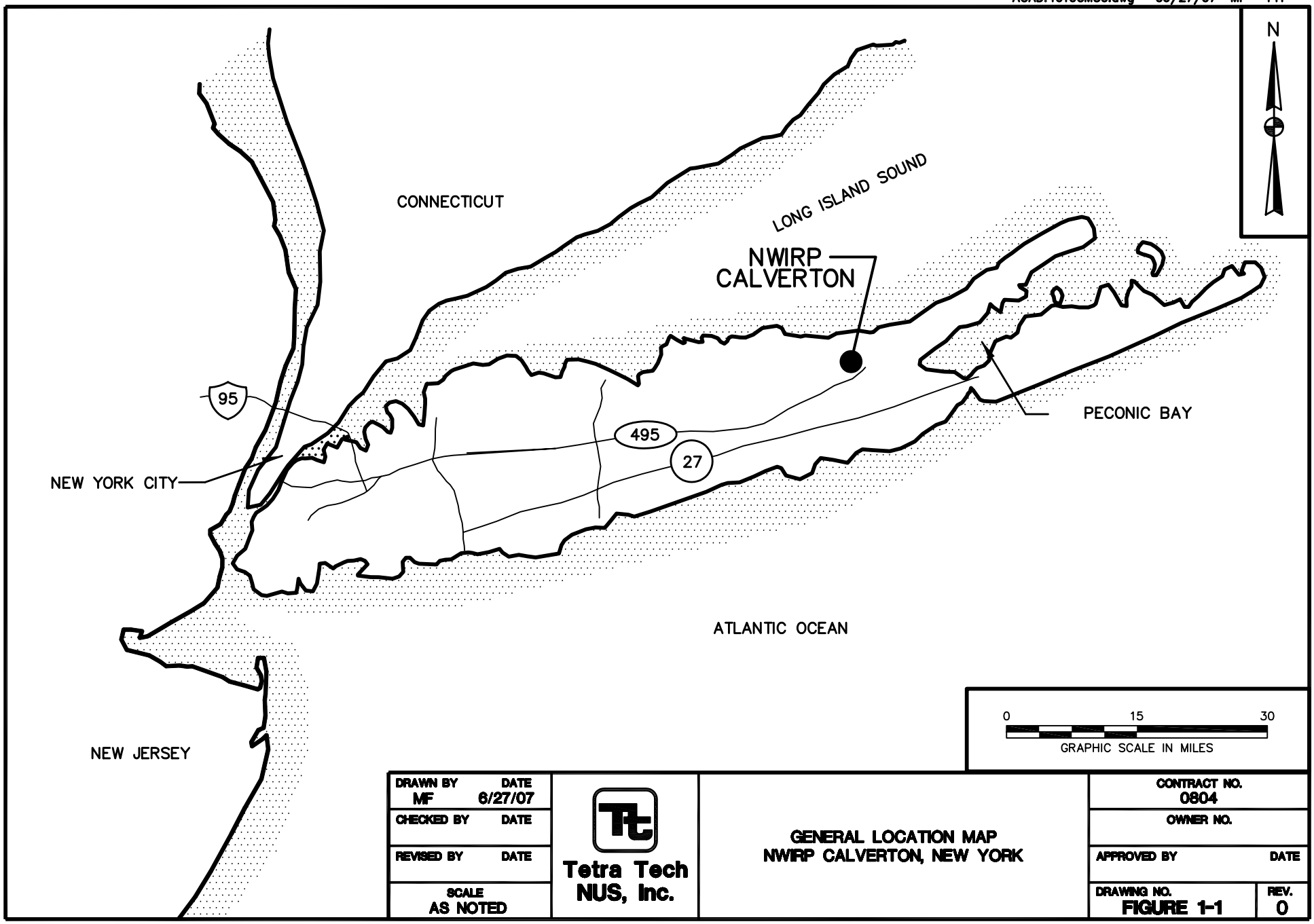
[1] (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at http://www.epa.gov/safewater/contaminants/index.html#primary

[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 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

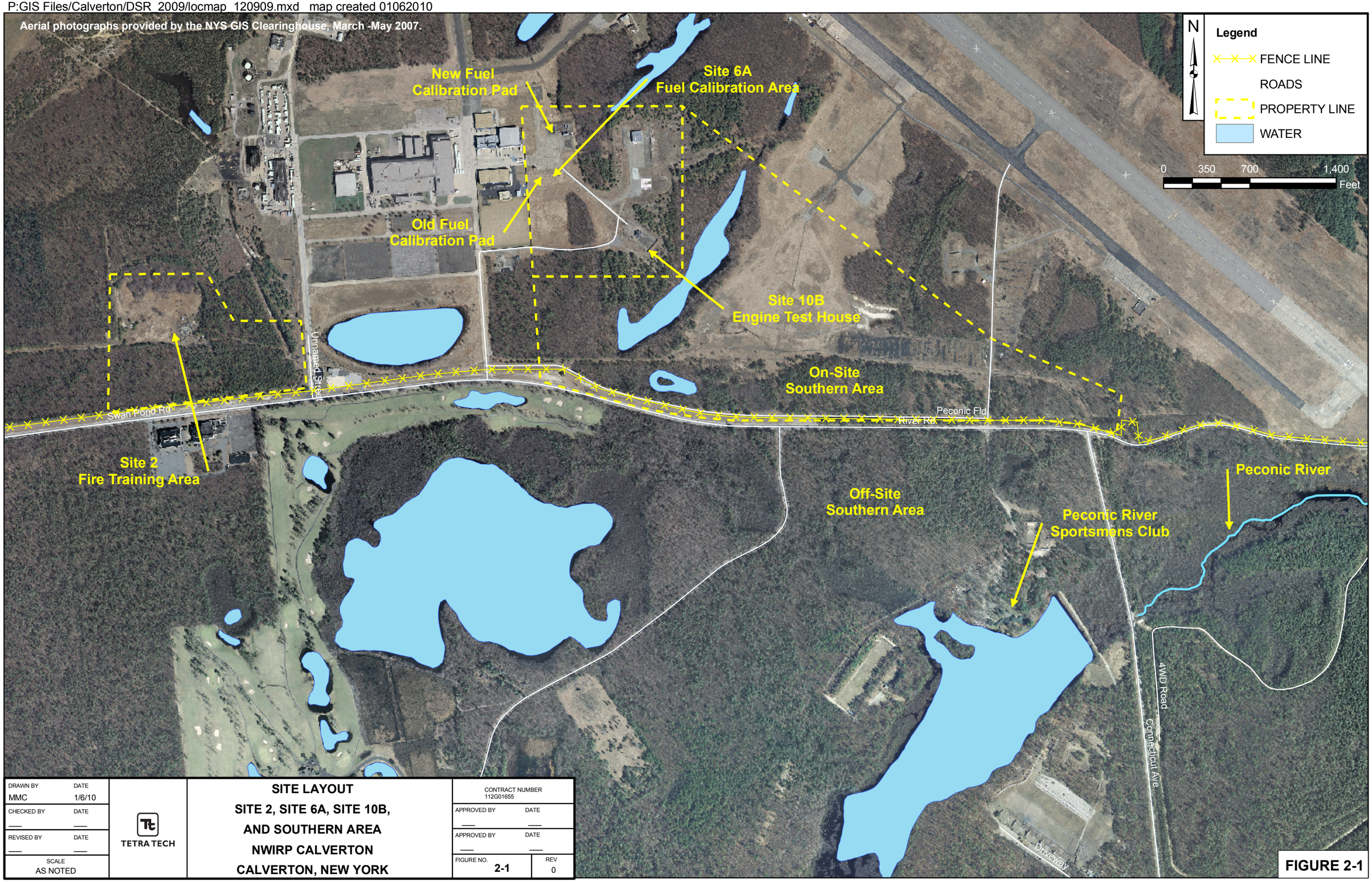
P:\GIS_files\Calverton parcels.mxd mmc 01062010

DRAWN BY M. CUSHING	DATE 1/6/2010	TETRA TECH	CONTRACT NUMBER 112G01655
CHECKED BY	DATE		APPROVED BY / DATE
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			FIGURE NO. 1-2 / REV 0

SITE LOCATION MAP

NWIRP Calverton, New York

P:GIS Files/Calverton/DSR 2009/locmap 120909.mxd map created 01062010



DRAWN BY	DATE		SITE LAYOUT	CONTRACT NUMBER 112G01655	
MMC	1/6/10	TETRA TECH	SITE 2, SITE 6A, SITE 10B,	APPROVED BY ___	DATE ___
CHECKED BY ___	DATE ___		AND SOUTHERN AREA	APPROVED BY ___	DATE ___
REVISED BY ___	DATE ___		NWIRP CALVERTON	FIGURE NO. 2-1	REV 0
SCALE AS NOTED			CALVERTON, NEW YORK		

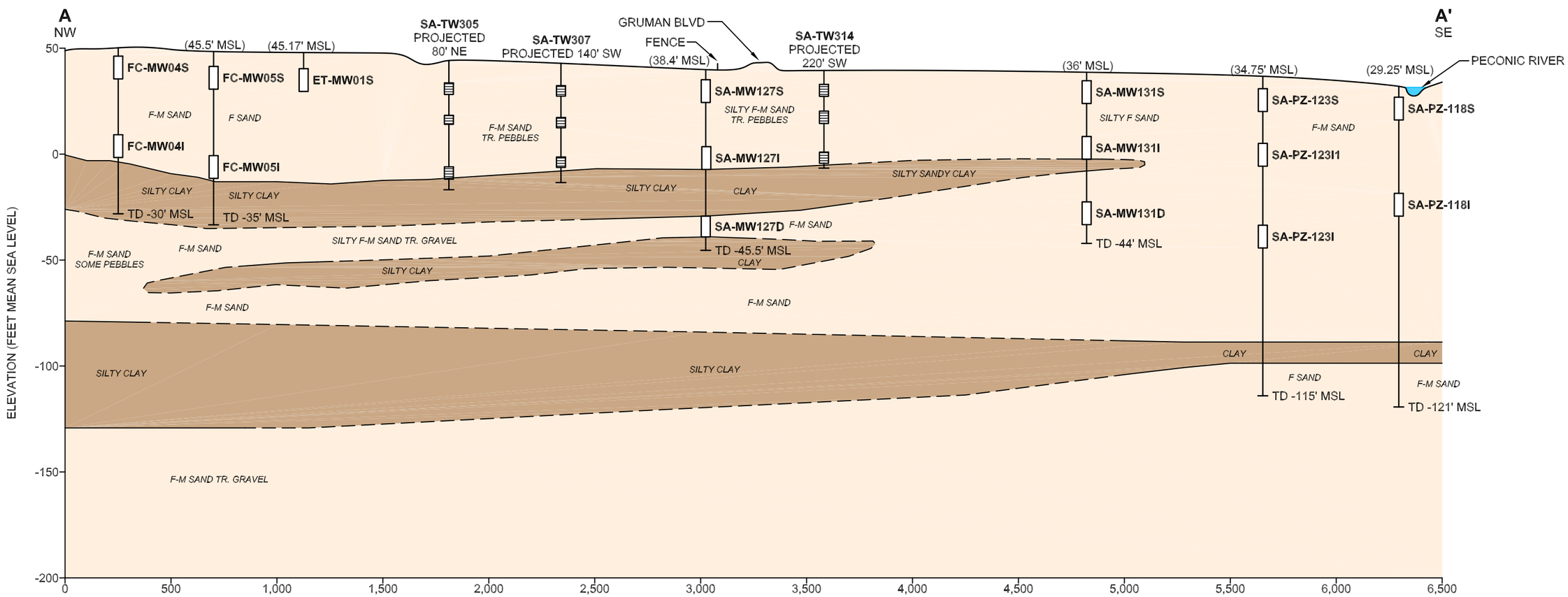
FIGURE 2-1

P:GIS Files/Calverton/DSR_2009/planviewmap_121409.mxd map created 01062010

DRAWN BY MMC	DATE 1/6/10	TETRA TECH	PLAN VIEW GEOLOGIC CROSS SECTION A - A' SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK
CHECKED BY ___	DATE ___		CONTRACT NUMBER 112G01655
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED			APPROVED BY ___ DATE ___
			FIGURE NO. 2-2 REV 0

FIGURE 2-2

112G02045\0420\112G02045GS01.DWG 01/06/10 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

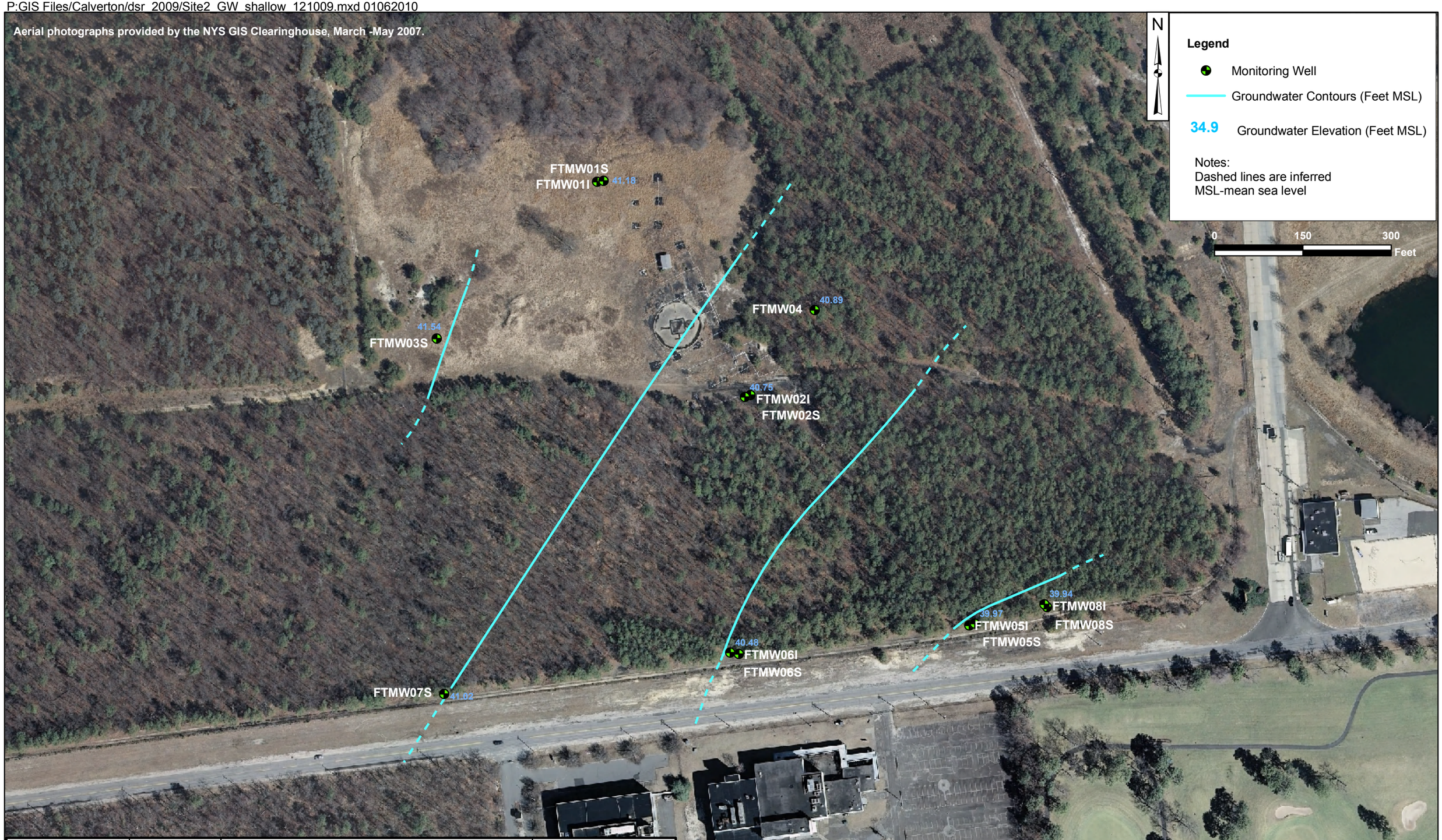
SCALE IN FEET

TETRA TECHNUS, INC.

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

FILE	SCALE
112G02045GS01	AS NOTED
FIGURE NUMBER	REV / DATE
FIGURE 2–3	0 / 01/06/10

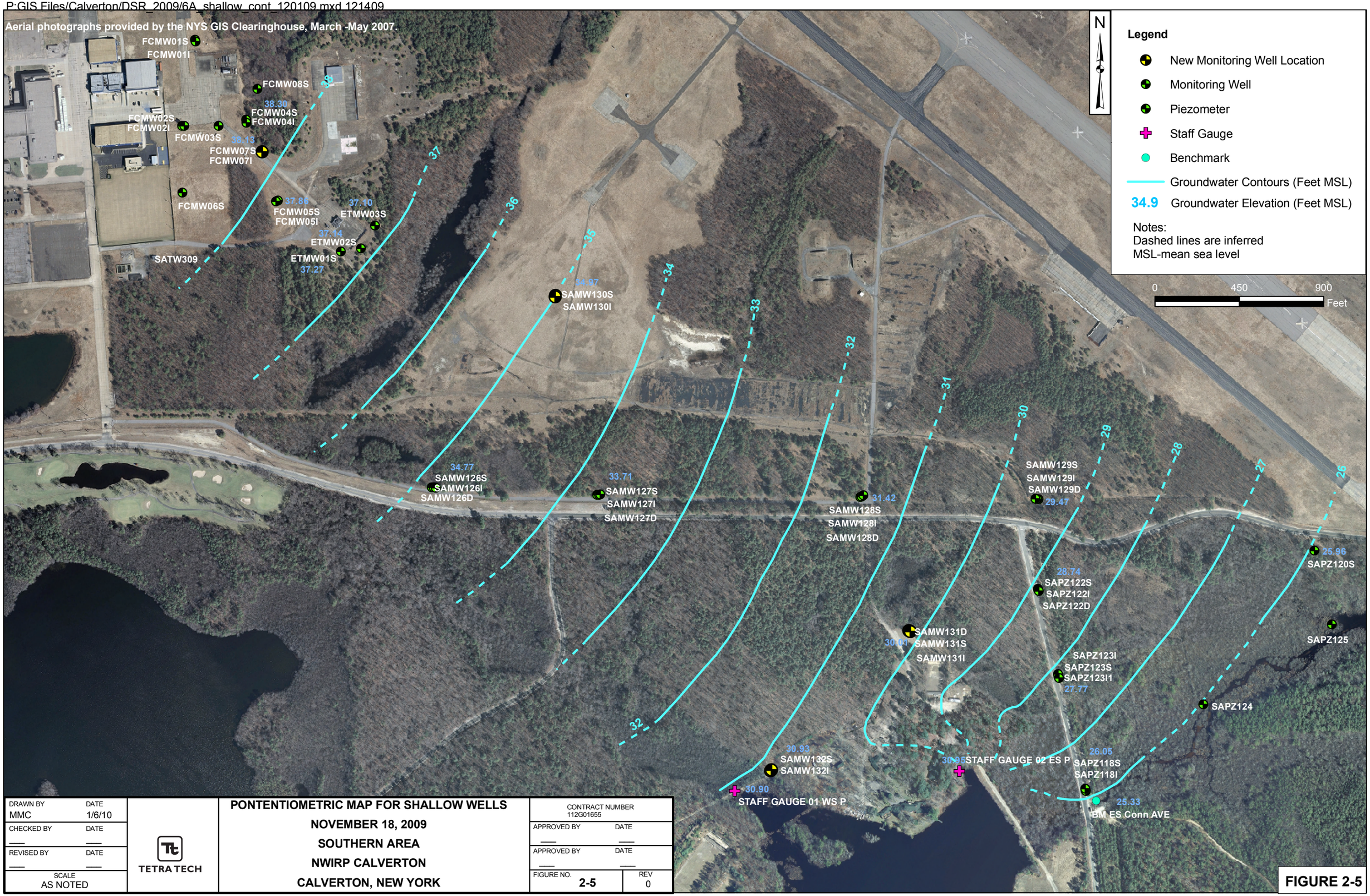
P:GIS Files/Calverton/dsr_2009/Site2_GW_shallow_121009.mxd 01062010



DRAWN BY MMC	DATE 1/6/10	TETRA TECH	POTENTIOMETRIC MAP FOR SHALLOW WELLS SEPTEMBER 30, 2009 SITE 2-FIRE TRAINING AREA NWIRP CALVERTON CALVERTON, NEW YORK
CHECKED BY ___	DATE ___		CONTRACT NUMBER 112G01655
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED			APPROVED BY ___ DATE ___
			FIGURE NO. 2-4 REV 0

FIGURE 2-4

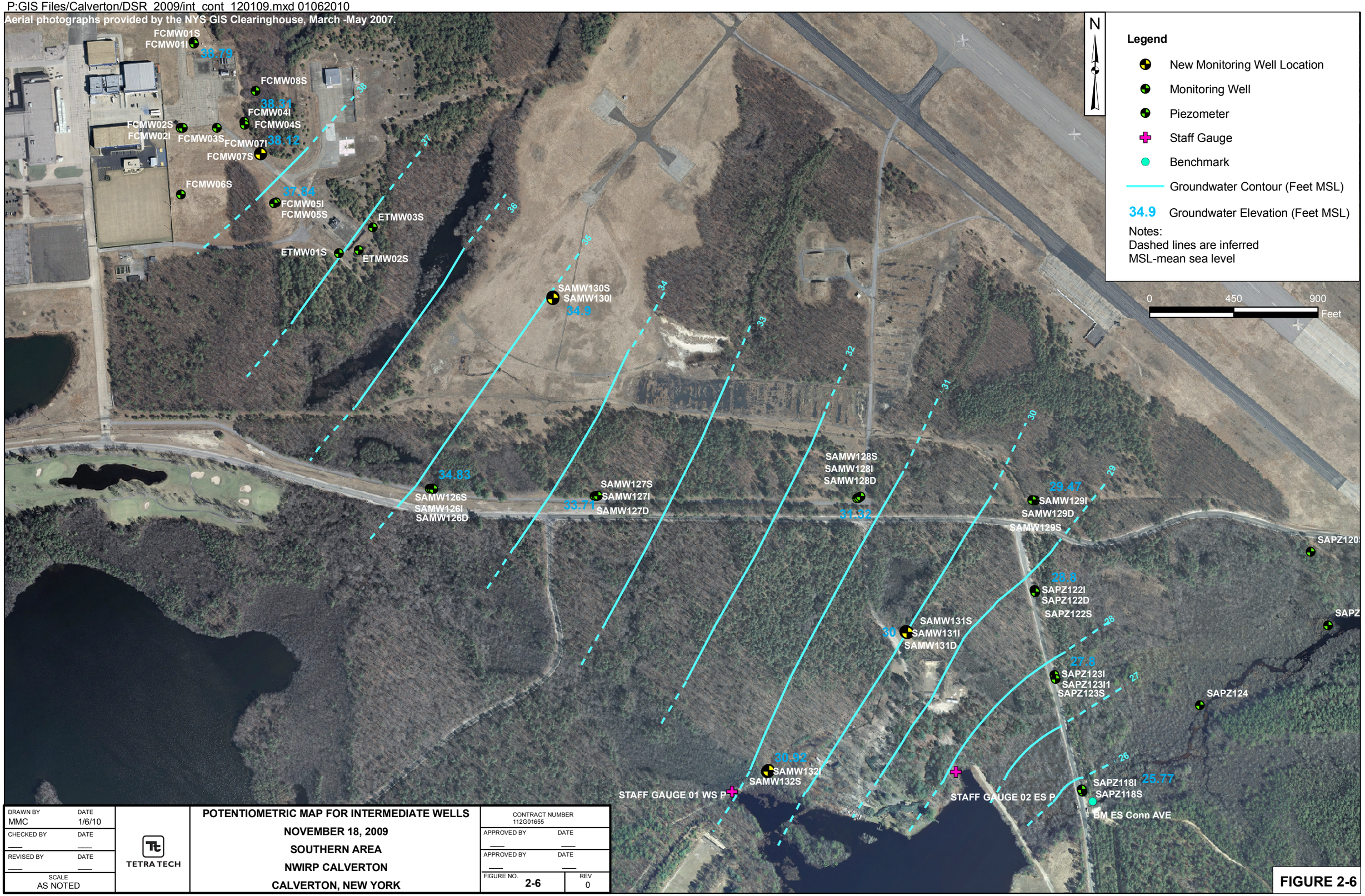
P:GIS Files/Calverton/DSR_2009/6A_shallow_cont_120109.mxd 121409



DRAWN BY	DATE			
MMC	1/6/10	TETRA TECH	PONTENTIOMETRIC MAP FOR SHALLOW WELLS NOVEMBER 18, 2009 SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK	CONTRACT NUMBER 112G01655
CHECKED BY	DATE			APPROVED BY / DATE
REVISED BY	DATE			APPROVED BY / DATE
SCALE AS NOTED				FIGURE NO. 2-5 / REV 0

FIGURE 2-5

P:GIS Files/Calverton/DSR_2009/int_cont_120109.mxd 01062010

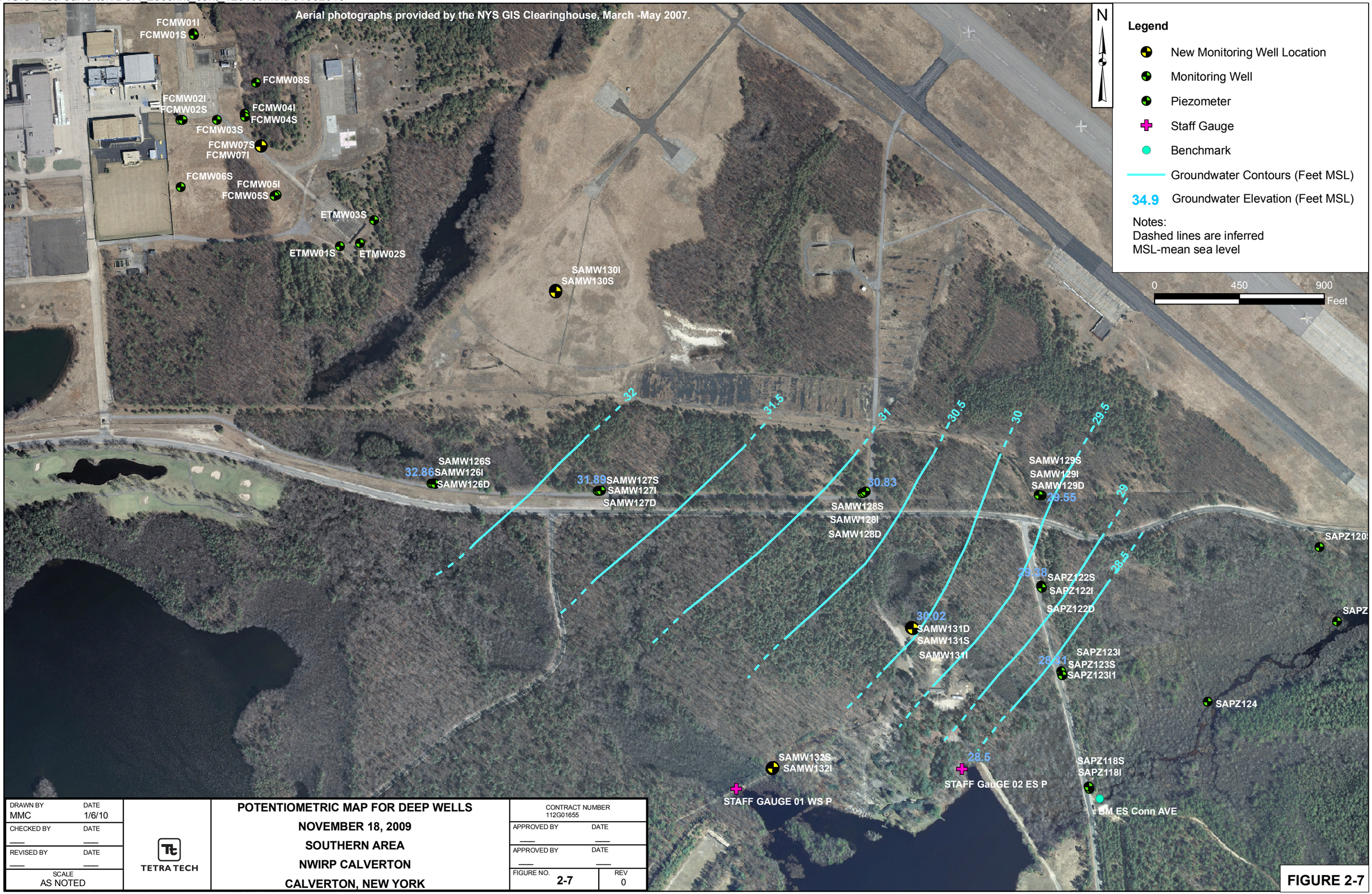


DRAWN BY MMC	DATE 1/6/10	TETRA TECH	POTENTIOMETRIC MAP FOR INTERMEDIATE WELLS NOVEMBER 18, 2009 SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK
CHECKED BY ___	DATE ___		
REVISED BY ___	DATE ___		
SCALE AS NOTED			

CONTRACT NUMBER 112G01655	
APPROVED BY ___	DATE ___
APPROVED BY ___	DATE ___
FIGURE NO. 2-6	REV 0

FIGURE 2-6

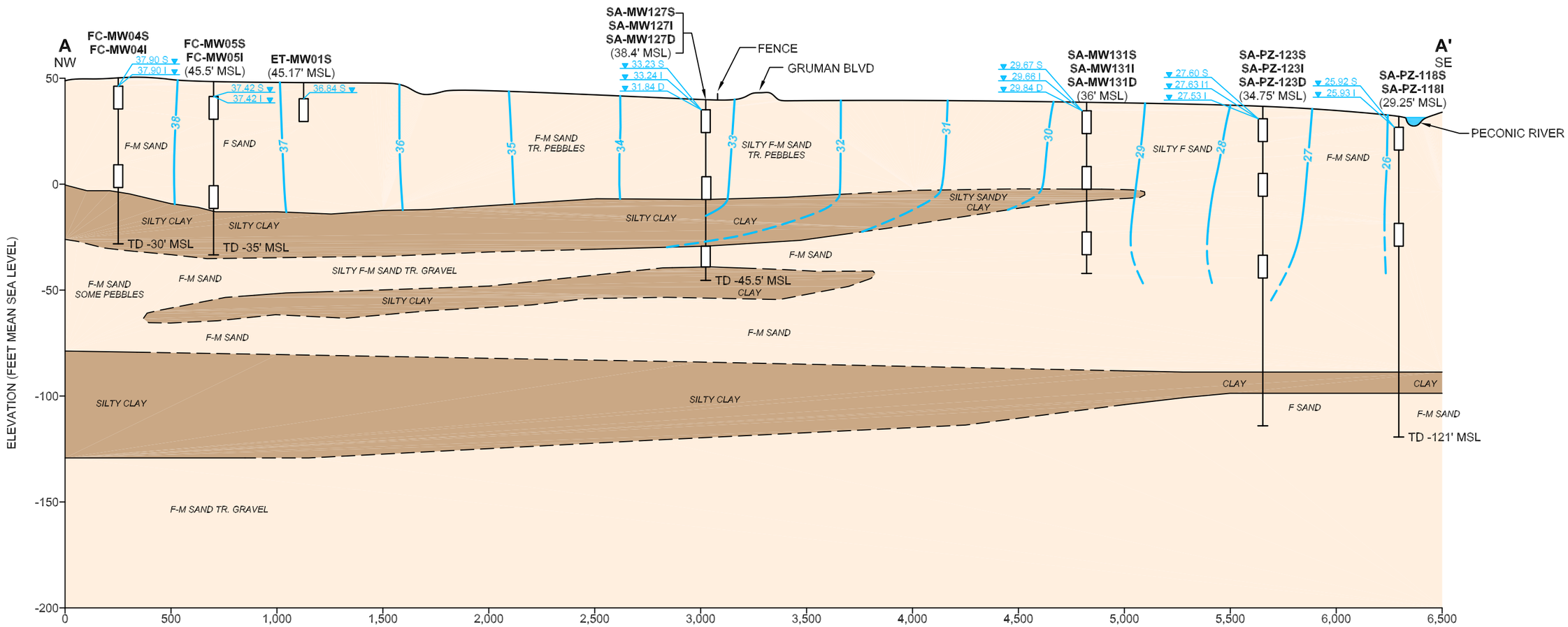
P:GIS Files/Calverton/DSR_2009/int_cont_120109.mxd 01062010



DRAWN BY MMC	DATE 1/6/10	TETRA TECH	POTENTIOMETRIC MAP FOR DEEP WELLS NOVEMBER 18, 2009 SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK	CONTRACT NUMBER 112G01655	
CHECKED BY ___	DATE ___			APPROVED BY ___	DATE ___
REVISED BY ___	DATE ___			APPROVED BY ___	DATE ___
SCALE AS NOTED				FIGURE NO. 2-7	REV 0

FIGURE 2-7

112G02045\0420\112G02045GS03.DWG 01/06/10 MKB



LEGEND

(45.5' MSL)	GROUND SURFACE ELEVATION (FEET MEAN SEA LEVEL)
	GROUND SURFACE
36.84 S	GROUNDWATER ELEVATION (FEET MEAN SEA LEVEL)
SA-MW131S	MONITORING WELL SCREEN
F SAND	LITHOLOGY
30	POTENTIOMETRIC CONTOUR IN FEET (DASHED WHERE INFERRED) AND POTENTIOMETRIC SURFACE ELEVATION
	CONFINING UNIT
TD -35' MSL	TOTAL DEPTH (FEET MEAN SEA LEVEL)

0 500 1,000
SCALE IN FEET

TETRA TECHNUS, INC.

SEPTEMBER 2009 POTENTIOMETRIC MAP
OF GEOLOGIC CROSS-SECTION A – A'
NAVAL WEAPONS INDUSTRIAL
RESERVE PLANT
CALVERTON, NEW YORK

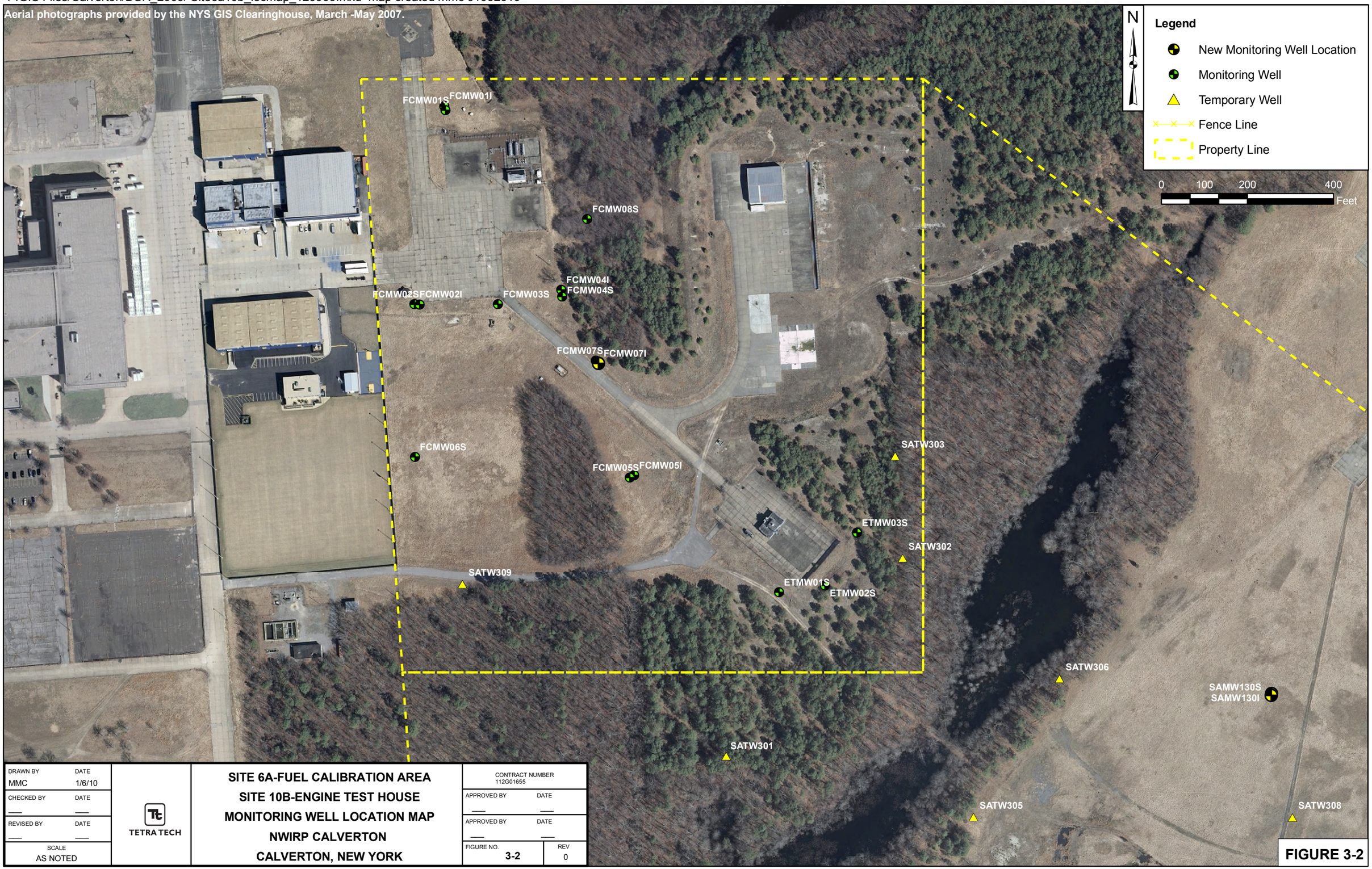
FILE	SCALE
112G02045GS02	AS NOTED
FIGURE NUMBER	REV / DATE
FIGURE 2-8	0 / 01/06/10

P:GIS Files/Calverton/DSR_2009/SA_TW_locmap_120909.mxd mmc map created 01062010

DRAWN BY MMC	DATE 1/6/10	TETRA TECH	2009 TEMPORARY WELL LOCATION MAP SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK
CHECKED BY ___	DATE ___		CONTRACT NUMBER 112G01655
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED			APPROVED BY ___ DATE ___
			FIGURE NO. 3-1 / REV 0

FIGURE 3-1

P:GIS Files/Calverton/DSR_2009/ Site6a10b_locmap_120909.mxd map created mmc 01062010



DRAWN BY MMC	DATE 1/6/10	SITE 6A-FUEL CALIBRATION AREA SITE 10B-ENGINE TEST HOUSE MONITORING WELL LOCATION MAP NWIRP CALVERTON CALVERTON, NEW YORK	CONTRACT NUMBER 112G01655
CHECKED BY ___	DATE ___		APPROVED BY ___ DATE ___
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED	TETRA TECH		FIGURE NO. 3-2 / REV 0

FIGURE 3-2

P:GIS Files/Calverton/DSR_2009/SA_locmap_120909.mxd map created mmc 01062010

DRAWN BY MMC	DATE 1/6/10	MONITORING WELL LOCATION MAP SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK	CONTRACT NUMBER 112G01655
CHECKED BY ___	DATE ___		APPROVED BY ___ DATE ___
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED	TETRA TECH		FIGURE NO. 3-3 REV 0

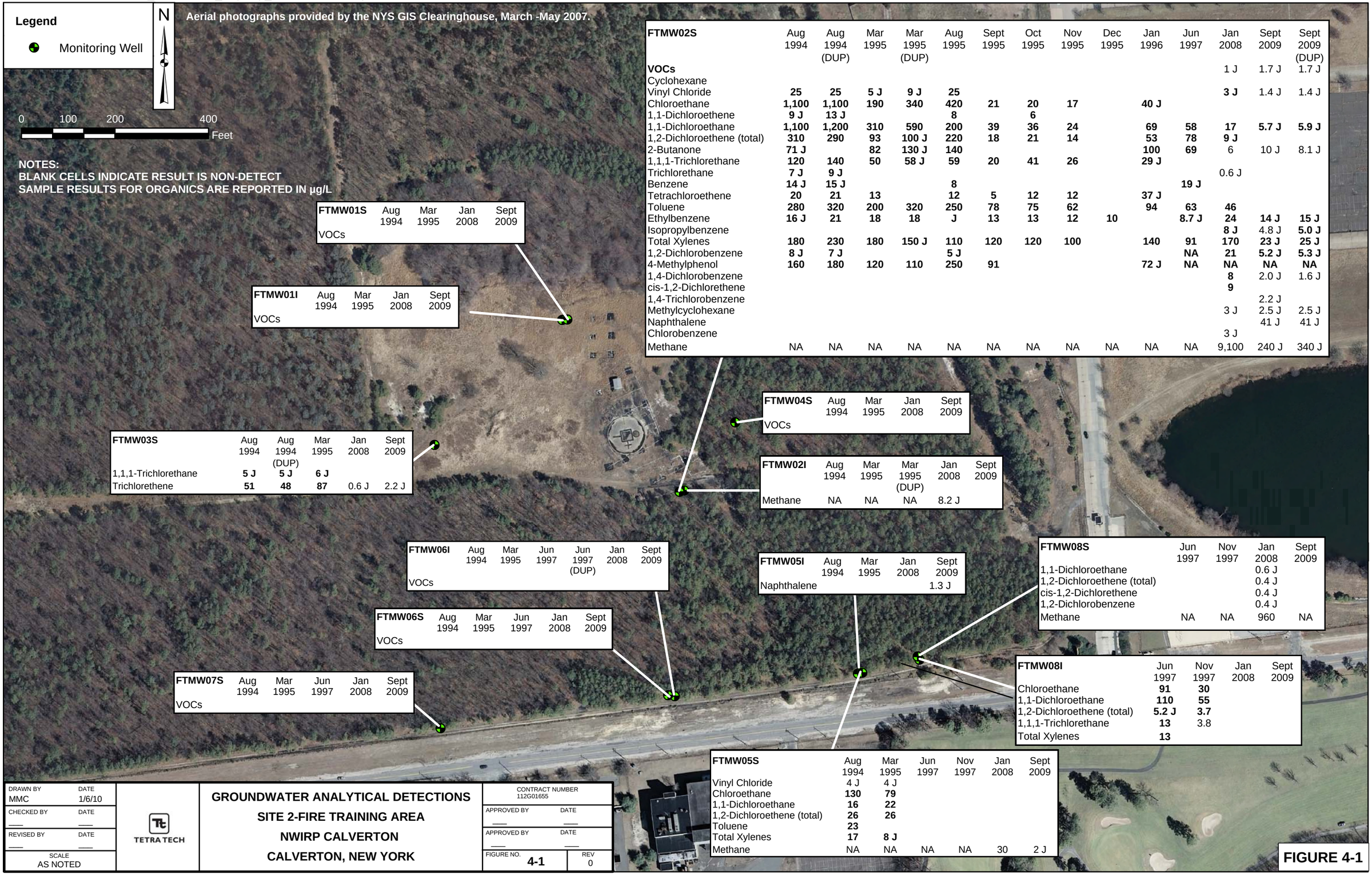
FIGURE 3-3

P:GIS Files/Calverton/DSR_2009/ Site2_locmap_120909.mxd map created mmc 01062010

DRAWN BY MMC	DATE 1/6/10	TETRA TECH	SITE 2 - FIRE TRAINING AREA MONITORING WELL LOCATION MAP NWIRP CALVERTON CALVERTON, NEW YORK
CHECKED BY ___	DATE ___		CONTRACT NUMBER 112G01655
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED			APPROVED BY ___ DATE ___
			FIGURE NO. 3-4 REV 0

FIGURE 3-4

P:GIS Files/Calverton/DSR_2009/ Site2_ltagmap_120909.mxd map created mmc 01062010



FTMW01S	Aug 1994	Mar 1995	Jan 2008	Sept 2009
VOCs				

FTMW01I	Aug 1994	Mar 1995	Jan 2008	Sept 2009
VOCs				

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)
VOCs												1 J	1.7 J	1.7 J
Cyclohexane														
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**
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
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**			
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**
Isopropylbenzene												**8 J**	4.8 J	**5.0 J**
Total Xylenes	**180**	**230**	**180**	**150 J**	**110**	**120**	**120**	**100**		**140**	**91**	**170**	**23 J**	**25 J**
1,2-Dichlorobenzene	**8 J**	**7 J**			**5 J**						**NA**	**21**	**5.2 J**	**5.3 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**		
1,4-Trichlorobenzene													2.2 J	
Methylcyclohexane												3 J	2.5 J	2.5 J
Naphthalene													41 J	41 J
Chlorobenzene												3 J		
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,100	240 J	340 J

FTMW04S	Aug 1994	Mar 1995	Jan 2008	Sept 2009
VOCs				

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

FTMW02I	Aug 1994	Mar 1995	Mar 1995 (DUP)	Jan 2008	Sept 2009
Methane	NA	NA	NA	8.2 J	

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

FTMW05I	Aug 1994	Mar 1995	Jan 2008	Sept 2009
Naphthalene				1.3 J

FTMW08S	Jun 1997	Nov 1997	Jan 2008	Sept 2009
1,1-Dichloroethane			0.6 J	
1,2-Dichloroethene (total)			0.4 J	
cis-1,2-Dichlorethene			0.4 J	
1,2-Dichlorobenzene			0.4 J	
Methane	NA	NA	960	NA

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

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

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

FTMW05S	Aug 1994	Mar 1995	Jun 1997	Nov 1997	Jan 2008	Sept 2009
Vinyl Chloride	4 J	4 J				
Chloroethane	**130**	**79**				
1,1-Dichloroethane	**16**	**22**				
1,2-Dichloroethene (total)	**26**	**26**				
Toluene	**23**					
Total Xylenes	**17**	**8 J**				
Methane	NA	NA	NA	NA	30	2 J

DRAWN BY	DATE
MMC	1/6/10
CHECKED BY	DATE
___	___
REVISED BY	DATE
___	___
SCALE	
AS NOTED	

TETRA TECH

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

CONTRACT NUMBER 112G01655

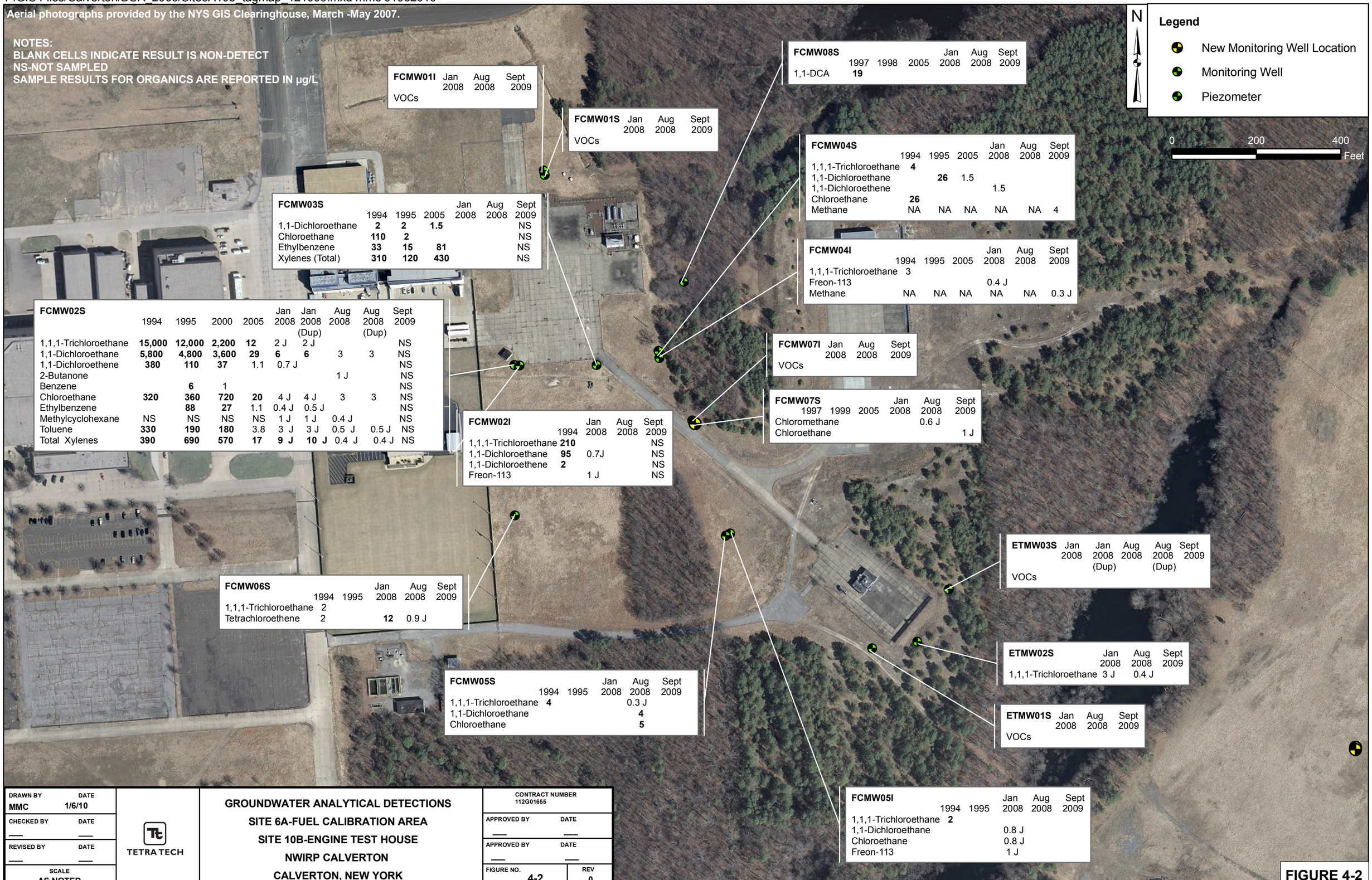
APPROVED BY ___ DATE ___

APPROVED BY ___ DATE ___

FIGURE NO. **4-1** REV 0

FIGURE 4-1

P:GIS Files/Calverton/DSR_2009/Site6A10b_tagmap_121009.mxd mmc 01062010



DRAWN BY	DATE
MMC	1/6/10
CHECKED BY	DATE
___	___
REVISED BY	DATE
___	___
SCALE	
AS NOTED	

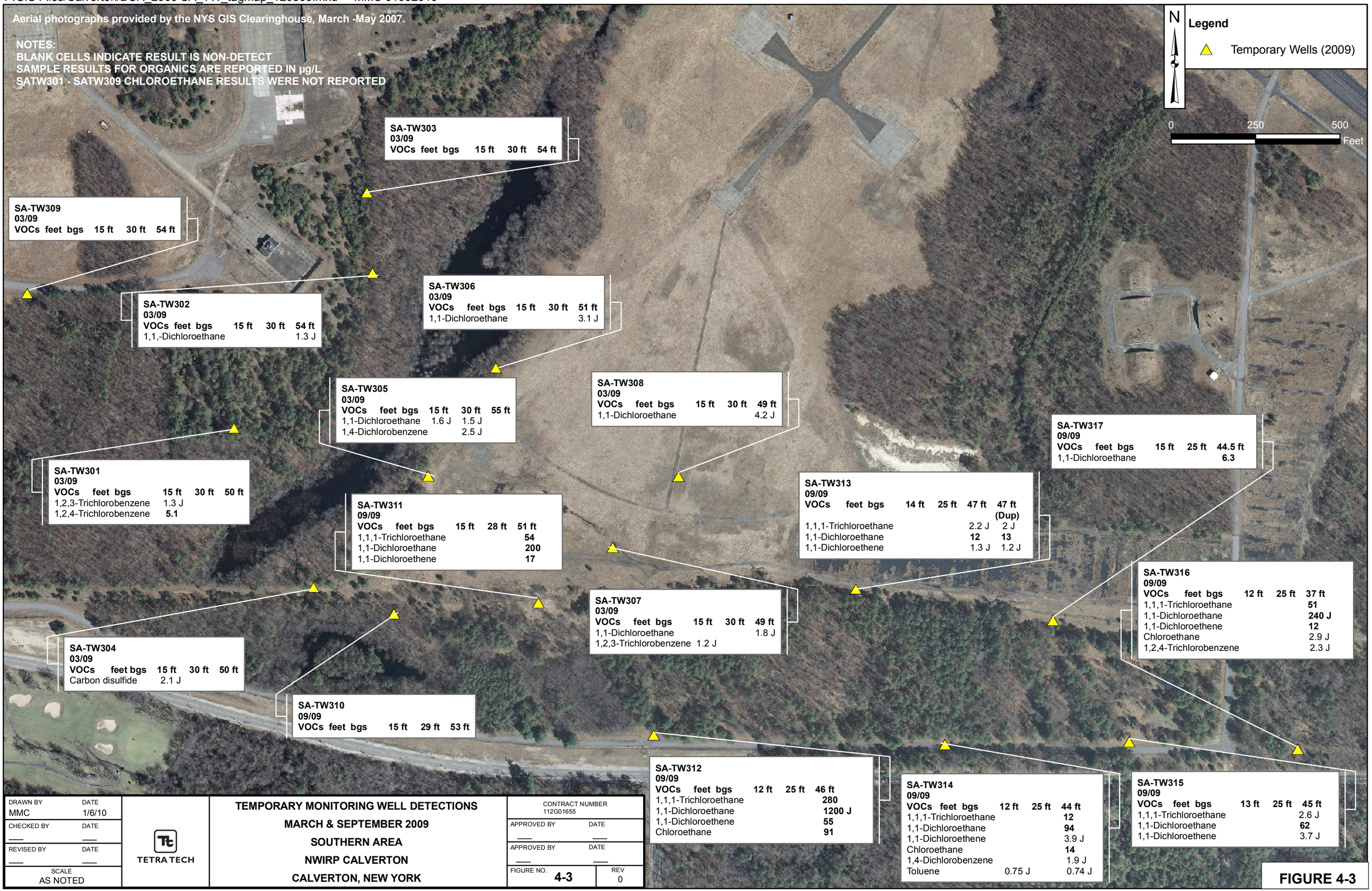
TETRA TECH

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

CONTRACT NUMBER 112G01655	
APPROVED BY ___	DATE ___
APPROVED BY ___	DATE ___
FIGURE NO. 4-2	REV 0

FIGURE 4-2

P:GIS Files/Calverton/DSR_2009 SA_TW_tagmap_120809.mxd MMC 01062010



DRAWN BY	DATE
MMC	1/6/10
CHECKED BY	DATE
—	—
REVISED BY	DATE
—	—
SCALE	
AS NOTED	

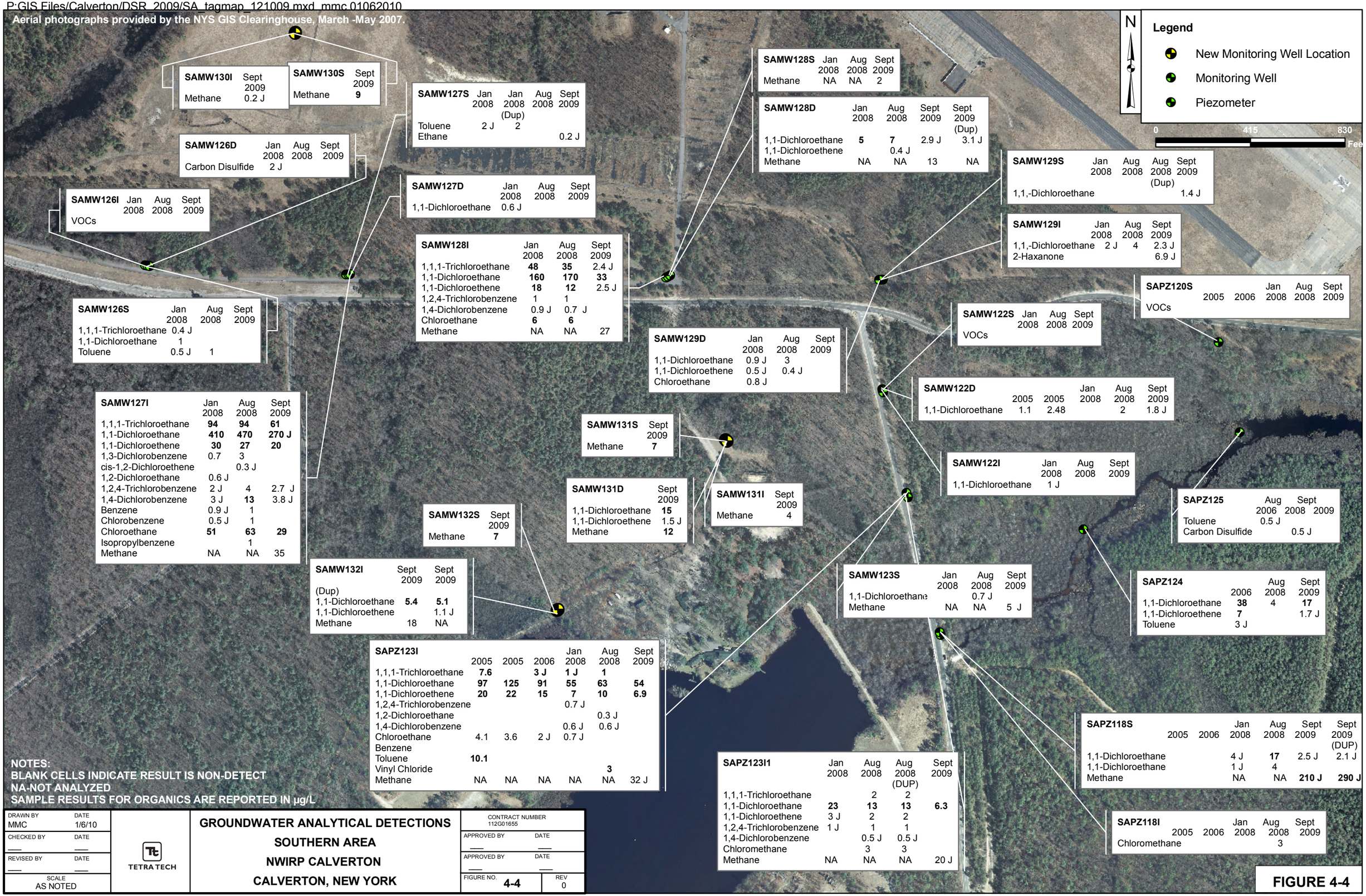
TETRA TECH

TEMPORARY MONITORING WELL DETECTIONS
MARCH & SEPTEMBER 2009
SOUTHERN AREA
NWIRP CALVERTON
CALVERTON, NEW YORK

CONTRACT NUMBER 112G01655	
APPROVED BY —	DATE —
APPROVED BY —	DATE —
FIGURE NO. 4-3	REV 0

FIGURE 4-3

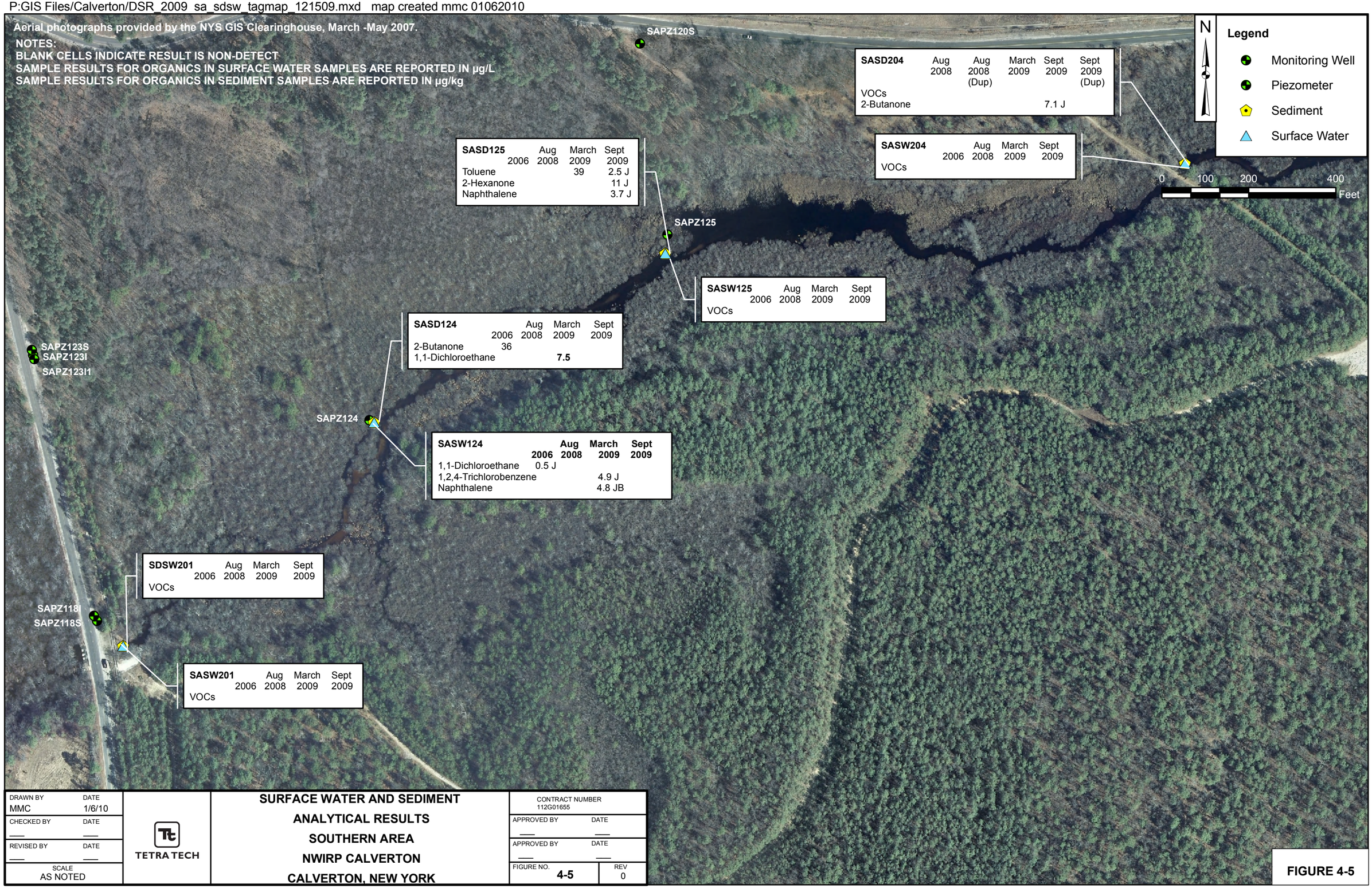
P:GIS Files/Calverton/DSR_2009/SA_tagmap_121009.mxd mmc 01062010



DRAWN BY	DATE		GROUNDWATER ANALYTICAL DETECTIONS	CONTRACT NUMBER 112G01655	
MMC	1/6/10	TETRA TECH	SOUTHERN AREA	APPROVED BY	DATE
CHECKED BY	DATE		NWIRP CALVERTON	APPROVED BY	DATE
REVISED BY	DATE		CALVERTON, NEW YORK	FIGURE NO. 4-4	REV 0
SCALE AS NOTED					

FIGURE 4-4

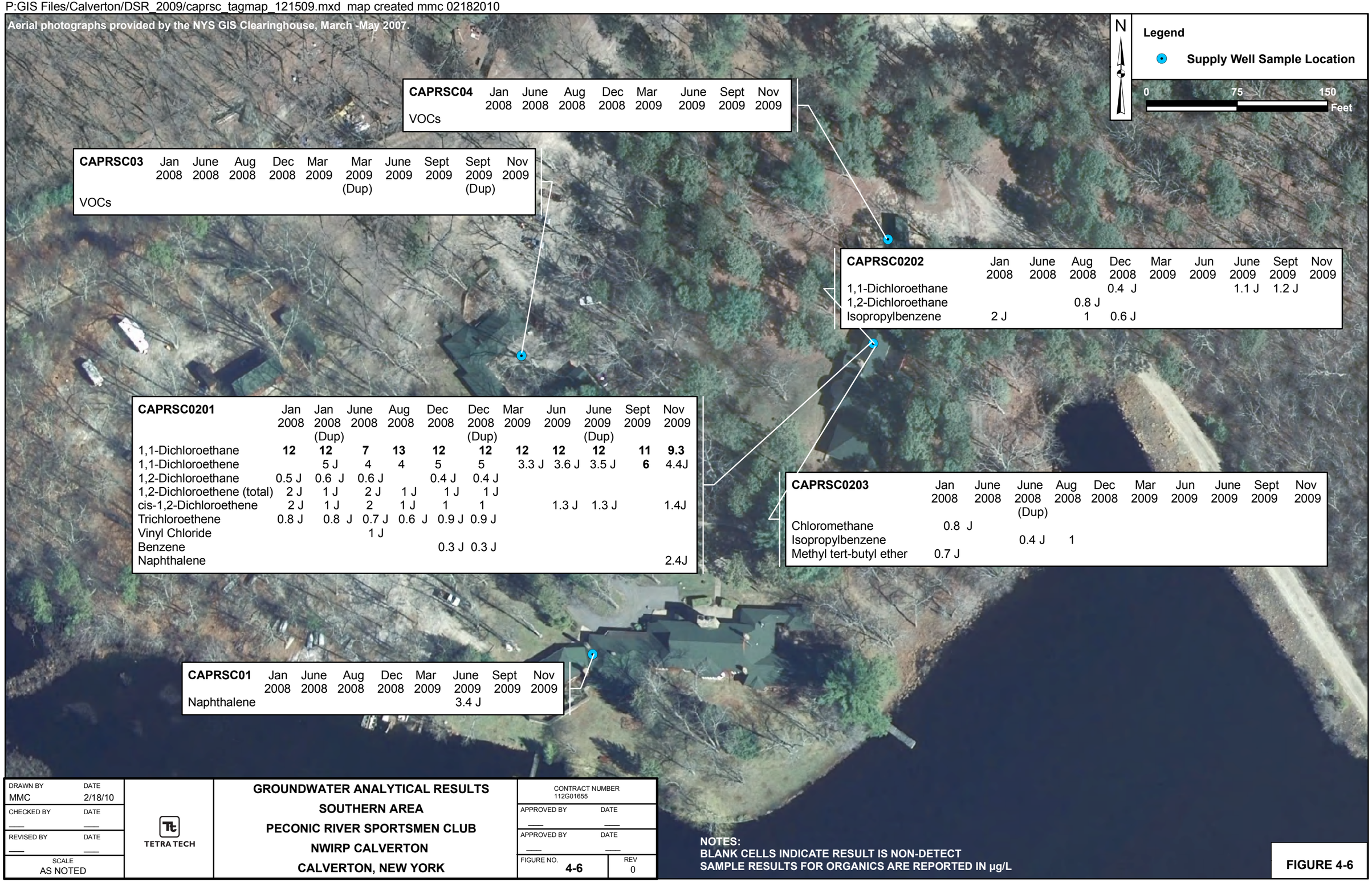
P:GIS Files/Calverton/DSR_2009 sa_sdsw_tagmap_121509.mxd map created mmc 01062010



DRAWN BY MMC	DATE 1/6/10	TETRA TECH	SURFACE WATER AND SEDIMENT ANALYTICAL RESULTS SOUTHERN AREA NWIRP CALVERTON CALVERTON, NEW YORK
CHECKED BY ___	DATE ___		CONTRACT NUMBER 112G01655
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED			APPROVED BY ___ DATE ___
			FIGURE NO. 4-5 REV 0

FIGURE 4-5

P:GIS Files/Calverton/DSR_2009/caprsc_tagmap_121509.mxd map created mmc 02182010



CAPRSC04 VOCs	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	June 2009	Sept 2009	Nov 2009

CAPRSC03 VOCs	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	Mar 2009 (Dup)	June 2009	Sept 2009	Sept 2009 (Dup)	Nov 2009

CAPRSC0202	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	Jun 2009	June 2009	Sept 2009	Nov 2009
1,1-Dichloroethane				0.4 J			1.1 J	1.2 J	
1,2-Dichloroethane			0.8 J						
Isopropylbenzene	2 J		1	0.6 J					

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
1,1-Dichloroethane	**12**	**12**	**7**	**13**	**12**	**12**	**12**	**12**	**12**	**11**	**9.3**
1,1-Dichloroethene		5 J	4	4	5	5	3.3 J	3.6 J	3.5 J	**6**	4.4J
1,2-Dichloroethane	0.5 J	0.6 J	0.6 J		0.4 J	0.4 J					
1,2-Dichloroethene (total)	2 J	1 J	2 J	1 J	1 J	1 J					
cis-1,2-Dichloroethene	2 J	1 J	2	1 J	1	1		1.3 J	1.3 J		1.4J
Trichloroethene	0.8 J	0.8 J	0.7 J	0.6 J	0.9 J	0.9 J					
Vinyl Chloride			1 J								
Benzene					0.3 J	0.3 J					
Naphthalene											2.4J

CAPRSC0203	Jan 2008	June 2008	June 2008 (Dup)	Aug 2008	Dec 2008	Mar 2009	Jun 2009	June 2009	Sept 2009	Nov 2009
Chloromethane	0.8 J									
Isopropylbenzene			0.4 J	1						
Methyl tert-butyl ether	0.7 J									

CAPRSC01	Jan 2008	June 2008	Aug 2008	Dec 2008	Mar 2009	June 2009	Sept 2009	Nov 2009
Naphthalene						3.4 J		

NOTES:
BLANK CELLS INDICATE RESULT IS NON-DETECT
SAMPLE RESULTS FOR ORGANICS ARE REPORTED IN µg/L

DRAWN BY	DATE
MMC	2/18/10
CHECKED BY	DATE
___	___
REVISED BY	DATE
___	___
SCALE	
AS NOTED	

TETRA TECH

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

CONTRACT NUMBER 112G01655

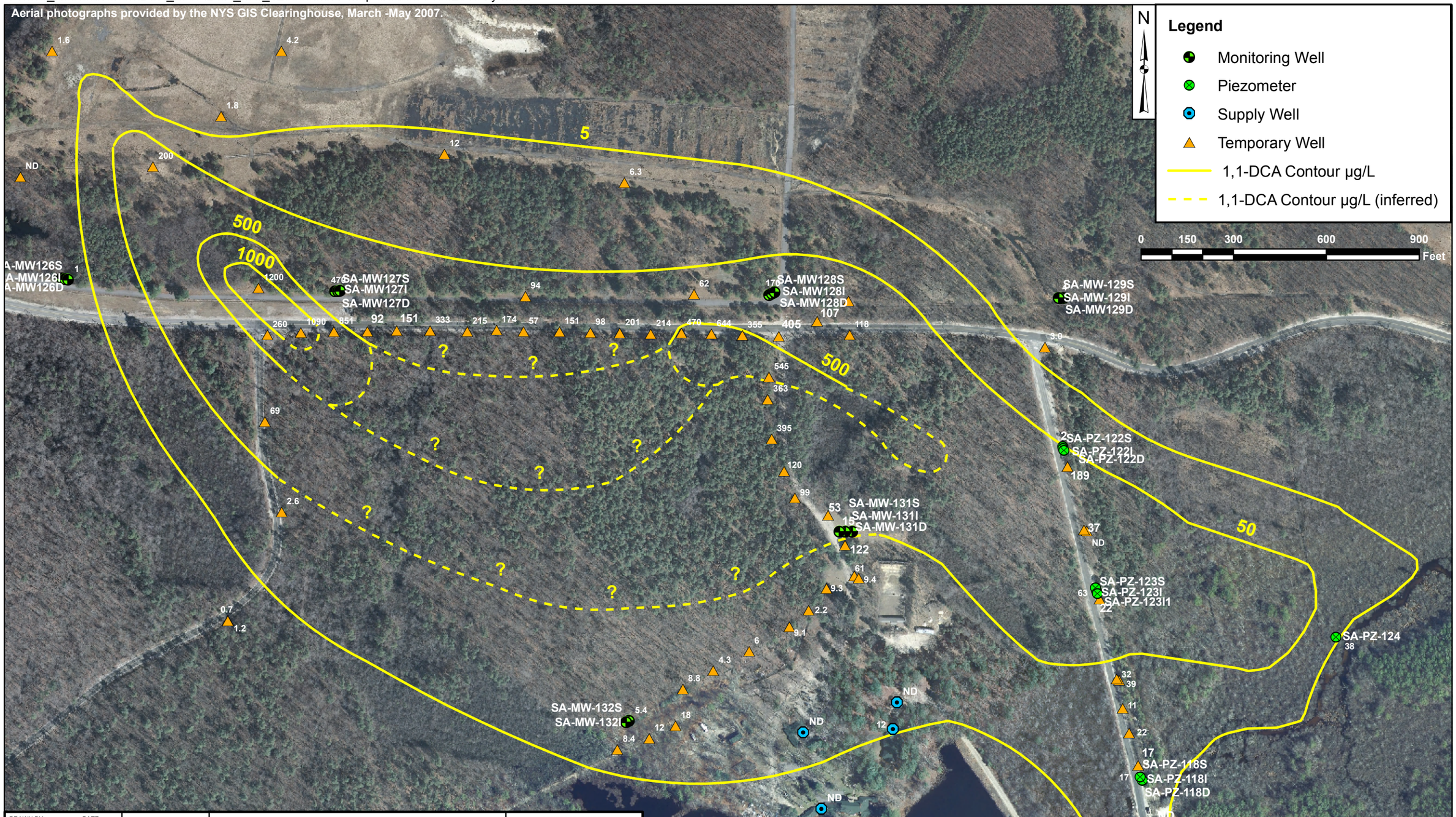
APPROVED BY ___ DATE ___

APPROVED BY ___ DATE ___

FIGURE NO. **4-6** REV 0

FIGURE 4-6

P:\GIS_files\Calverton\DSR_2009\DCA_ISO_120809.mxd Map created 01062010 by MMC

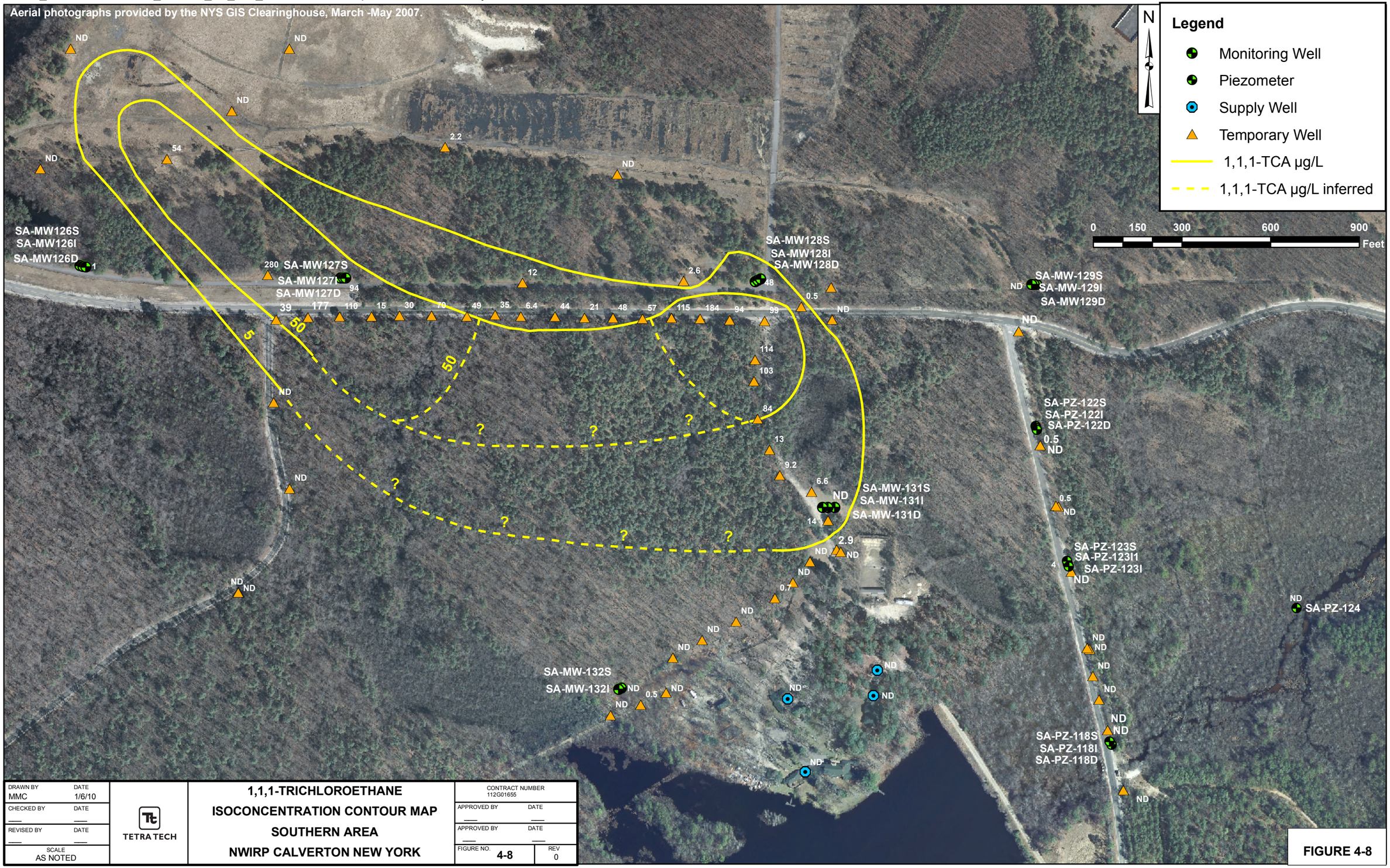


DRAWN BY MMC	DATE 1/6/10	TETRA TECH	1,1,-DICHLOROETHANE ISOCONCENTRATION CONTOUR MAP SOUTHERN AREA NWIRP CALVERTON NEW YORK
CHECKED BY	DATE		
REVISED BY	DATE		
SCALE AS NOTED			

CONTRACT NUMBER 112G01655	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 4-7	REV 0

FIGURE 4-7

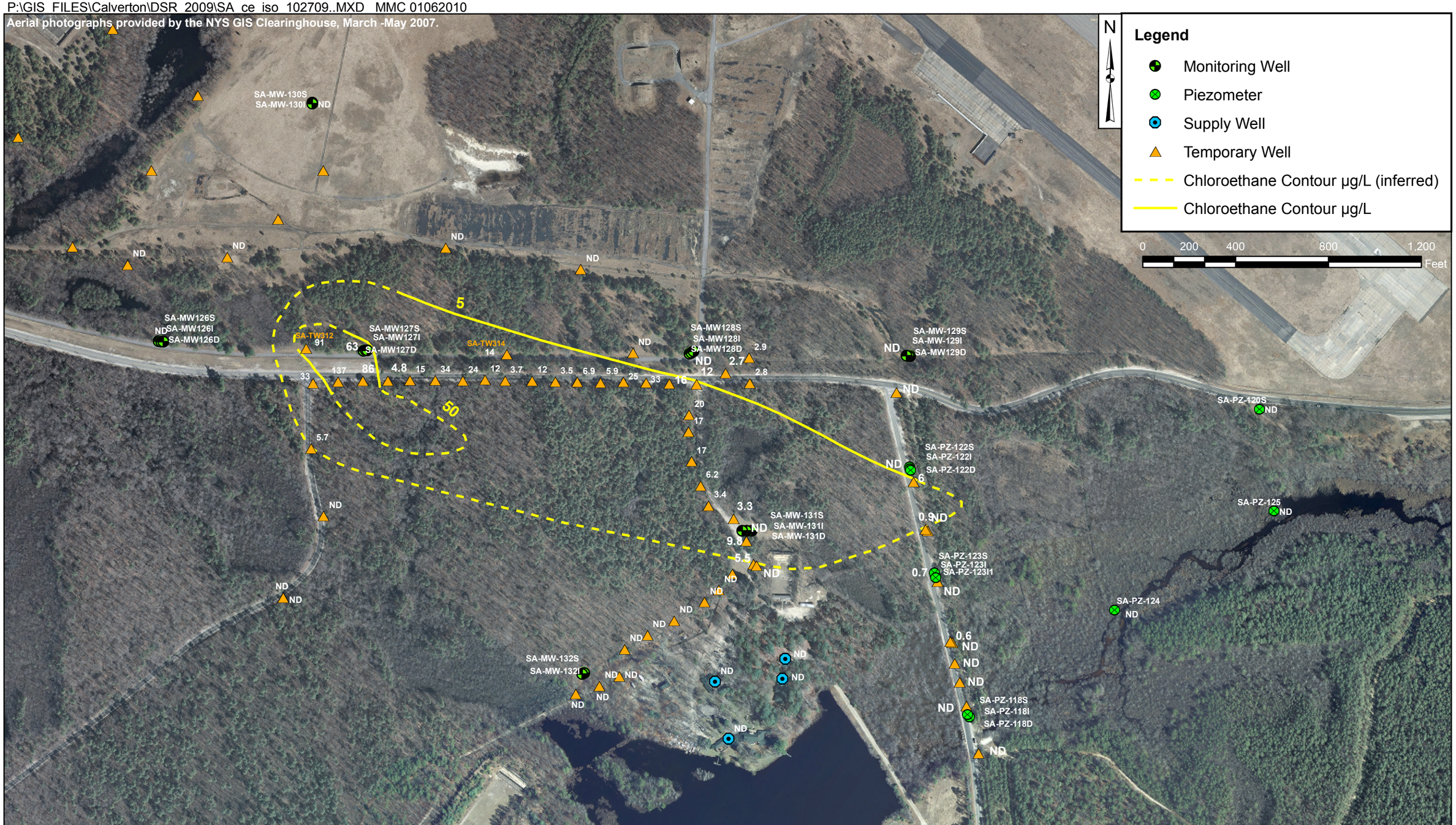
P:\GIS_files\Calverton\DSR_2009\sa_tca_ISO_102709.mxd Map created 01062010 by MMC



DRAWN BY MMC	DATE 1/6/10	TETRA TECH	1,1,1-TRICHLOROETHANE ISOCONCENTRATION CONTOUR MAP SOUTHERN AREA NWIRP CALVERTON NEW YORK	CONTRACT NUMBER 112G01655	
CHECKED BY	DATE			APPROVED BY	DATE
REVISED BY	DATE			APPROVED BY	DATE
SCALE AS NOTED				FIGURE NO. 4-8	REV 0

FIGURE 4-8

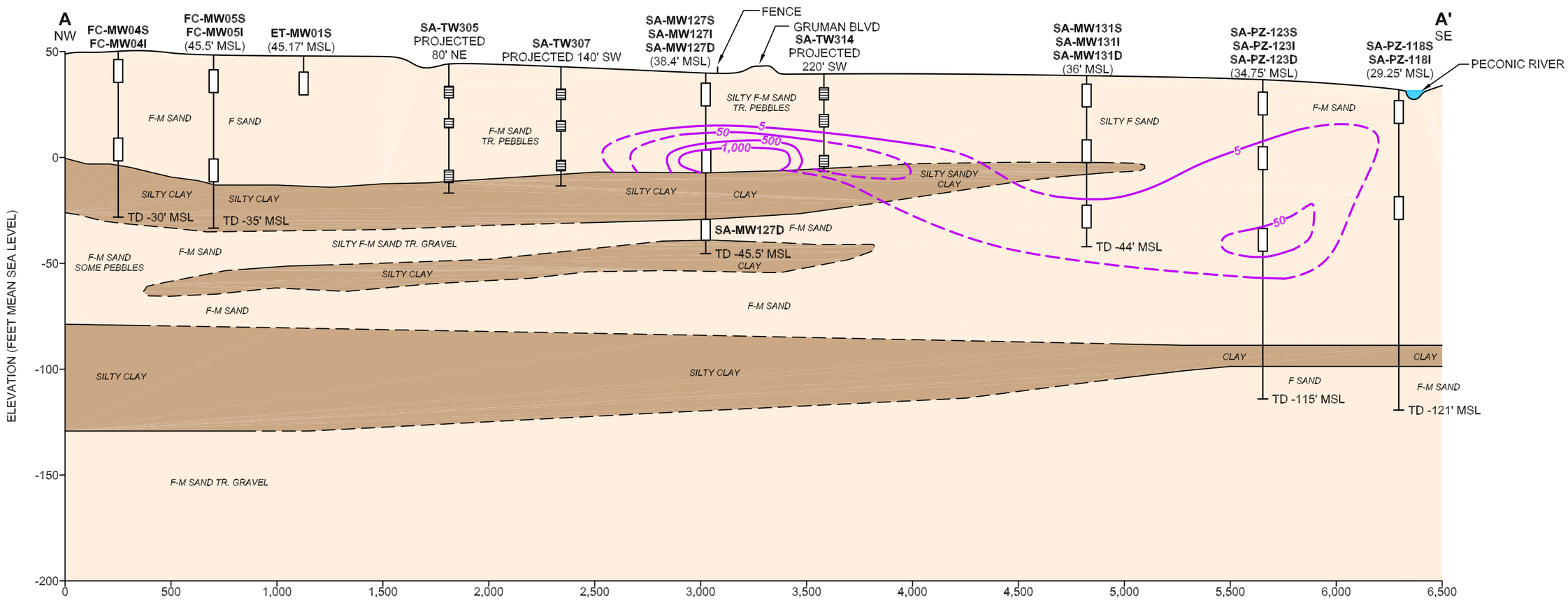
P:\GIS_FILES\Calverton\DSR_2009\SA_ce_iso_102709..MXD MMC 01062010



DRAWN BY MMC	DATE 1/6/10	TETRA TECH	CHLOROETHANE ISOCONCENTRATION CONTOUR MAP SOUTHERN AREA NWIRP CALVERTON NEW YORK
CHECKED BY ___	DATE ___		CONTRACT NUMBER 112G01655
REVISED BY ___	DATE ___		APPROVED BY ___ DATE ___
SCALE AS NOTED			APPROVED BY ___ DATE ___
			FIGURE NO. 4-9 REV 0

FIGURE 4-9

112G02045\0420\112G02045GS03.DWG 01/06/10 MKB



LEGEND

(45.5' MSL) GROUND SURFACE ELEVATION (FEET MEAN SEA LEVEL)

GROUND SURFACE

SA-MW131S MONITORING WELL SCREEN

F SAND LITHOLOGY

5 1,1-DICHLOROETHANE PLUME (5, 50, 500, 1,000 ug/L CONTOURS)

TEMPORARY WELL SCREEN

CONFINING UNIT

TD -35' MSL TOTAL DEPTH (FEET MEAN SEA LEVEL)

ug/L MICROGRAMS PER LITER

0 500 1,000

SCALE IN FEET

TETRA TECHNUS, INC.

1,1–DICHLOROETHANE ISOCONCENTRATION
MAP FOR GEOLOGIC
CROSS–SECTION A – A'
NAVAL WEAPONS INDUSTRIAL
RESERVE PLANT
CALVERTON, NEW YORK

FILE	SCALE
112G02045GS03	AS NOTED
FIGURE NUMBER	REV / DATE
FIGURE 4–10	0 / 01/06/10

APPENDICES

APPENDIX A

TEMPORARY MONITORING WELL BORING LOGS AND SAMPLE LOG SHEETS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW302
DATE: 3-25-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Bebel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1642	S-1	1					DK Brn	Silty Sand with leaves + grass roots		moist	0	0	0	0
		2												
		3					Wht Tan	FGR to MGR Sand		moist	0	0	0	0
		4												
		5		49"/60"			Wht Tan	Same as above		moist - no odor	0	0	0	0
1650	S-2	6												
		7					Wht Tan	FGR to MGR Sand Trace CGR Sand/pebbles		moist - No odors	0	0	0	0
		8												
		9												
		10		48"/60"			Wht Tan	Same as above		very moist - No odors	0	0	0	0
1656	S-3	11			▽					wet at ~10.5'				
		12												
		13					Brn Tan			wet - No odors	0	0	0	0
		14												
		15		50"/60"			Brn Tan	Same as above		wet - No odors	0	0	0	0
1704	S-4	16												
		17												
		18					Wht Tan	FGR to MGR Sand with some CGR Sand and Trace pebbles		wet - No odors	0	0	0	0
		19												
		20		60"/60"			Wht Tan				0	0	0	0
1720	S-5	21												
		22					Brn Tan	Same as above		wet - No odors	0	0	0	0
		23												
		24												
		25		60"/60"			Brn Tan	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.

Remarks: 2 inch X 5 foot macro-core sampler with acetate liners
discreet sampler used from 15' to Total depth

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW302
DATE: 3-25-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Babel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1735	S-6	26					Brn Tan	FGR to MGR Sand with Some CGR Sand and Trace pebbles		wet - No odors	0	0	0	0
		27												
		28								wet - No odors	0	0	0	0
		29					wht Tan	FGR to MGR Sand Trace CGR Sand/pebbles						
3-25-09		30		60"/60"						wet - No odors	0	0	0	0
3-26-09	S-7	31												
		32					wht Tan			wet - No odors	0	0	0	0
		33												
		34												
		35		60"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0806	S-8	36												
		37					Brn Tan							
		38								wet - No odors	0	0	0	0
		39												
		40		58"/60"			Brn Tan	Same as above		wet - No odors	0	0	0	0
0827	S-9	41												
		42					Brn Tan	Same as above		wet - No odors	0	0	0	0
		43												
		44					wht Tan	FGR to MGR Sand		wet - No odors	0	0	0	0
		45		60"/60"										
0855	S-10	46												
		47					wht Tan	Same as above		wet - No odors	0	0	0	0
		48												
		49												
		50		60"/60"			Brn Tan	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.

Remarks: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW302
DATE: 3-26-09
GEOLOGIST: Vince Shickora
DRILLER: Andrew Babel

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**
0940	S-11	51					Brn Tan	FGR to MGR Sand		wet- No odors	0	0	0	0
		52												
		53												
		54					Brn Tan	Same as above		wet - No odors	0	0	0	0
		55		60"/60"			Gray	Silty clay		wet - No odors	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: 2 inch X 5 foot macro-core sampler with 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: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW304
DATE: 3-24-09
GEOLOGIST: Vince Shickora / Rob Sok
DRILLER: Andrea Bobel

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													
S1	1												
	2						Direct Push						
	3						to 45'						
	4						(no samples collected						
	5						above)						
	6												
	7												
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	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.

Remarks: 2 inch X 4 foot macro-core sampler with acetate liners

Drilling Area Background (ppm):

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW 304
DATE: 3-24-09
GEOLOGIST: Vince Shickora / Rob Sok
DRILLER: Andrea Bobel

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												
	27						Direct Push 0'						
	28						to 45'						
	29												
	30												
	31												
	32												
	33												
	34												
	35												
	36												
	37												
	38												
	39												
	40												
	41												
	42												
	43												
	44												
	45												
S-1	46					Brn Tan	FGR Sand with Trace MGR Sand / Fine pebbles		wet - No stains or odors	0	0	0	0
	47												
	48									0	0	0	0
	49												
	50		60"/60"			Brn Tan	Same as above		wet - No stains or 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.

Remarks: 2 inch X 4 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0.0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW305
DATE: 3-24-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Bebel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1538	S-1	1					DK Brn	Sandy silt with some gravel		moist	0	0	0	0
		2												
		3			- - -		Wht Tan	FGR to MGR Sand Trace Fine pebbles and CGR Sand		moist	0	0	0	0
		4												
		5		55"/60"			wht Tan	Same as above		moist				
1542	S-2	6									0	0	0	0
		7												
		8					wht Tan			very moist	0	0	0	0
		9												
		10		51"/60"	▽		wht Tan	Same as above		wet at ~9.5'	0	0	0	0
1548	S-3	11												
		12												
		13					wht Tan			wet - no odors	0	0	0	0
		14												
		15		50"/60"			Tan Brn	Same as above		wet - no odors	0	0	0	0
1554	S-4	16												
		17												
		18					Brn Tan			wet - no odors	0	0	0	0
		19												
		20		52"/60"			Brn Tan	Same as above		wet - no odors	0	0	0	0
1606	S-5	21												
		22												
		23								wet - no odors	0	0	0	0
		24												
		25		54"/60"			Brn Tan	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: 2 inch X 5 foot macro-core sampler with acetate liners
discreet interval sampler used from 10' to Total depth

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW305
DATE: 3-24-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Bebel

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**
1624	S-6	26					Brn Tan	FGR to MGR Sand with Trace CGR Sand/pebbles		wet - No odors	0	0	0	0
		27												
		28					Brn Tan			wet - No odors	0	0	0	0
		29												
		30		57"/60"			Brn Tan	Same as above		wet - No odors	0	0	0	0
1639	S-7	31												
		32					Tan	Same as above		wet - No odors	0	0	0	0
		33												
		34												
		35		59"/60"			Tan	Same as above		wet - No odors	0	0	0	0
1659	S-8	36												
		37					Tan	FGR Sand with Trace MGR Sand / Silt		wet - No odors	0	0	0	0
		38												
		39												
		40		60"/60"			Tan	Same as above		wet - No odors	0	0	0	0
1720	S-9	41												
		42					Brn Tan	FGR to MGR Sand Trace CGR Sand/pebbles		wet - No odors	0	0	0	0
		43												
		44												
		45		60"/60"			Brn Tan	Same as above		wet - No odors	0	0	0	0
1745	S-10	46												
		47												
		48					Brn Tan				0	0	0	0
		49												
		50		59"/60"			Brn Tan	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.

Remarks: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW305
DATE: 3-25-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Babel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
3-25-09 Time 0824 5-11	51					Brn Tan	FGR to MGR Sand		wet - No odors	0	0	0	0
	52												
	53												
	54					Brn Tan	Same as above		wet - No odors	0	0	0	0
	55		60"/60"										
0859 5-12	56					Gray	Silt-Clay		wet - No odors	0	0	0	0
	57												
	58												
	59												
	60		60"/60"			Gray	Same as above		wet - No odors				
	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.

Remarks: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW307
DATE: 3-23-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Bobel

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**
1115	S-1	1					DK Brn	Sandy silt with some clay and grass roots		moist	0	0	0	0
		2												
		3					Brn	Silty Fine to Medium Sand Trace Fine p. pebbles		moist	0	0	0	0
		4												
		5		52"/60"			Brn Tan	Fine to Medium Grain Sand Trace Fine pebbles		moist	0	0	0	0
1123	S-2	6												
		7												
		8					wht Tan	Same as above		wet at ~8.0'	0	0	0	0
		9												
		10		54"/60"										
1128	S-3	11					wht Tan	Same as above		wet - no stains or odor	0	0	0	0
		12												
		13									0	0	0	0
		14												
		15		60"/60"			wht Tan	Same as above		wet - no stains or odor	0	0	0	0
1142	S-4	16												
		17												
		18									0	0	0	0
		19												
		20		58"/60"			Brn Tan	Same as above		wet - no stains or odor	0	0	0	0
1158	S-5	21												
		22					Brn Tan	FGR to MGR Sand with Trace CGR Sand/Fine pebbles		wet - no stains or odor	0	0	0	0
		23												
		24												
		25		60"/60"			Brn Tan	Same as above		wet - no stains or odor	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 inch X 5 foot macro-core sampler with acetate liners
discrete interval sampler from 10' to Total depth

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW 307
DATE: 3-23-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Bebel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1216	S-6	26					Brn Tan	FGR to MGR Sand with Trace CGR Sand/Fine pebbles		wet - No stains or odor	0	0	0	0
		27												
		28								wet - No stains or odor	0	0	0	0
		29												
		30		60"/60"			wht Tan	Same as above		wet - No stains or odor	0	0	0	0
1231	S-7	31												
		32												
		33								wet - No stains or odor	0	0	0	0
		34												
		35		59"/60"			wht Tan	Same as above		wet - No stains or odor	0	0	0	0
1251	S-8	36												
		37												
		38					wht Tan	Same as above		wet - No stains or odors	0	0	0	0
		39												
		40		58"/60"			Brn	FGR Sand with Trace MGR Sand and Silt		wet - No Stains or odors	0	0	0	0
1355	S-9	41												
		42												
		43					Brn Tan	FGR to MGR Sand with Trace CGR Sand / Fine pebbles		wet - No stains or odors	0	0	0	0
		44												
		45		59"/60"			Brn Tan	Same as above		wet - No stains or odors	0	0	0	0
1422	S-10	46												
		47									0	0	0	0
		48												
		49					Brn Tan	Same as above		wet - No stains or odors	0	0	0	0
		50		60"/60"			Gray	Clayey Silt		wet - No stains or 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.

Remarks: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm):

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW307
DATE: 3-23-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Babel

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**
1442	S-11	51			- - -		Gray	Clayey Silt		wet - No stains or odors	0	0	0	0
		52					Gray	Silt - Clay		wet - Plyable				
		53								No odors or stains	0	0	0	0
		54												
1500		55		57"/60"	EOB		Gray	Same as above		No odors or stains	0	0	0	0
		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: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW309
DATE: 3-27-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Rabel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0750	S-1	1					DK Brn	Sandy Silt with grass roots and pebbles		moist	0	0	0	0
		2												
		3					wht Tan	FGR to MGR Sand Trace CGR Sand and pebbles		moist	0	0	0	0
		4												
		5		49"/60"			wht Tan				0	0	0	0
0754	S-2	6												
		7					wht Tan	Same as above		moist - No odors	0	0	0	0
		8												
		9												
		10		50"/60"			wht Tan	Same as above		very moist - No odors	0	0	0	0
0758	S-3	11												
		12												
		13			▽		wht Tan			wet at ~12' BGS	0	0	0	0
		14												
		15		52"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0804	S-4	16												
		17												
		18					wht Tan			wet - No odors	0	0	0	0
		19												
		20		57"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0811	S-5	21												
		22												
		23					wht Tan			wet - No odors	0	0	0	0
		24												
		25		60"/60"			wht Tan	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: 2 inch X 5 foot macro-core sampler with acetate liners
discreet interval sampler used from 15' BGS to Total depth

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW309
DATE: 3-27-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Babel

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0822	S-6	26					wht Tan	FGR to MGR Sand Trace CGR Sand and pebbles		wet - No odors	0	0	0	0
		27												
		28					wht Tan			wet - No odors	0	0	0	0
		29												
		30		58"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0842	S-7	31												
		32												
		33					wht Tan			wet - No odors	0	0	0	0
		34												
		35		57"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0910	S-8	36												
		37												
		38					wht Tan			wet - No odors	0	0	0	0
		39												
		40		60"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0934	S-9	41												
		42												
		43					wht Tan			wet - No odors	0	0	0	0
		44												
		45		60"/60"			wht Tan	Same as above		wet - No odors	0	0	0	0
0955	S-10	46												
		47												
		48					wht Tan			wet - No odors	0	0	0	0
		49												
		50		54"/60"			wht Tan	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.

Remarks: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655
DRILLING COMPANY: ADT
DRILLING RIG: GEOPROBE

BORING No.: SA-TW309
DATE: 3-27-09
GEOLOGIST: Vince Shickora
DRILLER: Andrea Babel

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**
1018	S-11	51					Wht T21	FGR to MGR Sand Trace CGR Sand and Pebbles		wet - No odors	0	0	0	0
		52												
		53					T21 Brn			wet - No odors	0	0	0	0
		54						Same as above						
		55			- - -		Gray	Silt-Clay		wet - No odors	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: 2 inch X 5 foot macro-core sampler with acetate liners

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-310S / 310I / 310D
DATE: 9-24-09
GEOLOGIST: Vince Shickora
DRILLER: Jason Guaci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1100		1					DK Brn	Silty FGR Sand with some pebbles, grass, roots		moist	0	0	0	0
											0	0	0	0
1104		5					DK Brn	Silty FGR Sand Trace fine pebbles		moist	0	0	0	0
		8			▽		Brn	FGR to MGR Sand Trace fine pebbles and silt		wet at ~8' BGS	0	0	0	0
		10					Brn	Same as above		wet	0	0	0	0
					310S well screen					collect GW sample from 10' to 15' BGS (see sample logs)	0	0	0	0
1111 1235		15					Brn	Same as above		wet	0	0	0	0
											0	0	0	0
1141		20					Brn	Same as above		wet	0	0	0	0
											0	0	0	0
		24			310I well screen									
1144		25					Brn	Same as above		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: 3¼" ID HSA (0.010" slot x 5' long stainless well screen)
2" x 2' split spoons collected on selected intervals
140 pound downhole hammer

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-310S
SA-TW-310I
SA-TW-310D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-310S/310I/310D
DATE: 9-24-09
GEOLOGIST: V. Slickora
DRILLER: J. Greci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
		26					Tan Brn	FGR to MGR Sand Trace silt and fine pebbles		wet	0	0	0	0
					310I well screen					collect GW sample				
										24' to 29' BGS (see sample logs)				
1245		29					Tan Brn	Same as above		wet	0	0	0	0
		30												
										Drillers add 6 gallons water to Augers				
											0	0	0	0
1402		35					Tan Brn	Same as above		wet	0	0	0	0
										Drillers add 6 gallons water to Augers				
											0	0	0	0
1406		40					Tan Brn	Same as above with Trace Mica Flakes		wet	0	0	0	0
										Drillers add 7 gallons water to Augers				
											0	0	0	0
1409		45					Tan Brn	Same as above		wet	0	0	0	0
		46								Drillers add 6 gallons water to Augers				
		47												
		48			310D well screen						0	0	0	0
1411		49												
1414	S-1	50	8 17				Brn Tan	FGR Sand - Trace MGR Sand, and 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.

Remarks: Description of soils from 0' to 49' BGS completed by observing cuttings brought to surface by HSA and are not accurate to depth

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-310S/310I/310D
DATE: 9-24-09
GEOLOGIST: V. Shickora
DRILLER: J. Gueci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
		51	22/21	23"/24"	310D well screened	Very Stiff	Brn Tan	FGR Sand - Trace MGR Sand and silt.		wet	0	0	0	0
1422 1431	S-2	52	11/16							Drillers add 5 gallons water to Augers				
		53	21/33	24"/24"		Very Stiff	Brn Tan	Same as above		wet	0	0	0	0
1441 1449	S-3	54	8/5							collect GW sample from 48' to 53' BGS				
		55	4/3			Soft	Gry	Silty clay - clayey silt Trace FGR Sand		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.

Remarks: (see page 1 and 2)

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: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-311B / 311I / 311D
DATE: 9-23-09
GEOLOGIST: Vince Shickora
DRILLER: Pat McAdam

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0958		1					DK Brn	Silty Sand with grass, leaves, roots		moist	0	0	0	0
											0	0	0	0
1002		5					Brn	Silty FGR Sand Trace fine pebbles.		moist	0	0	0	0
							Tan Brn	FGR Sand Trace silt and fine pebbles		moist	0	0	0	0
1006		10			▽		Tan	FGR to MCR Sand some fine pebbles - Trace silt		wet at ~10.0'	0	0	0	0
					311B well screen					Collect GW sample from 10' to 15' bgs (see sample logs)	0	0	0	0
1009 1108		15					Tan	Same as above		wet				
											0	0	0	0
											0	0	0	0
1114		20					Tan	Same as above		wet	0	0	0	0
		23												
		24			311I well screen									
1119		25					Tan	Same as above		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: 3 1/4" ID HSA (0.010" slot x 5' long stainless well screen)
2" x 2' stainless split spoon samples on selected intervals
140 pound down hole hammer

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-311B
SA-TW-311I
SA-TW-311D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-311H/311I/311D
DATE: 9-23-09
GEOLOGIST: V. Shickora
DRILLER: P. McAdam

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
		26			311I well screen		Tan	FGR to MGR Sand Trace silt and fine pebbles		wet	0	0	0	0
		27								collect GW sample from 23' to 28' BGS				
1124		28								(see sample logs)	0	0	0	0
1253														
1255		30					Brn Tan	Same as above		Drillers add 7 gallons water to Augers	0	0	0	0
										wet				
											0	0	0	0
1301		35					Brn Tan	Same as above		wet	0	0	0	0
										Drillers add 8 gallons water to Augers				
											0	0	0	0
1304		40					Brn Tan	Same as above		wet	0	0	0	0
										Drillers add 6 gallons water to Augers				
											0	0	0	0
1309		45					Brn Tan	Same as above		wet	0	0	0	0
1332	S-1	46	4/9							Drillers add 8 gallons water to Augers				
1352		47	13/15	23"/24"		Stiff	Brn Tan	FGR Sand - Trace MGR Sand, silt and mica flakes		wet	0	0	0	0
1424	S-2	48	4/8		311D well screen									
		49	9/9	22"/24"		Stiff	Brn Tan	Same as above		wet	0	0	0	0
1437 1452	S-3	50	4/10							Drillers add 9 gallons water to Augers.				

* 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: Description of soils conducted by observing cuttings brought to surface by HSA and are not accurate to depth from 0' to 45' BGS

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-311S / 311I / 311D
DATE: 9-23-09
GEOLOGIST: V. Shukla
DRILLER: P. McAdam

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 VAS S1	S1	9 / 10	21" / 24"	well sorted	Stiff	Brn Tan	FGR Sand - Trace MGR Sand and Silt.		wet	0	0	0	0
1504 S-4	S2	5 / 4							clay at ~51.5' BGS				
	S3	5 / 5	18" / 24"		Medium Stiff	Gray	Silty Clay / clayey Silt Trace FGR Sand		collect GW sample from 46' to 51' BGS (see sample logs	0	0	0	0
	S4			EOB									
	S5												

* 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: Description of cuttings from 0' to 45' BGS conducted by observing cuttings brought to surface by HSA and are not accurate to depth.

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: DWIRP Columbia
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-312S/312I/312D
DATE: 9-14-09
GEOLOGIST: Vince Shickora
DRILLER: Jason Gucci

	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**
0812		1				M. Dense	Brn Dk Brn	Silty FGR Sand		Moist	0	0	0	0
											0	0	0	0
		5					Brn	Same as above		moist	0	0	0	0
0818							Tan Brn	FGR to MGS Sand		very moist				
		7						-Trace silt			0	0	0	0
		8			▽					wet at ~ 7.5' BGS				
					312S well screen									
0820		10					Tan	Same as above		wet	0	0	0	0
										-Sample Gw from 7' to 12' BGS (see sample logs)				
0823		12												
											0	0	0	0
0950		15					Tan	Same as above		wet	0	0	0	0
											0	0	0	0
1000		20					Brn Tan	Same as above		wet	0	0	0	0
					312I well screen									
											0	0	0	0
										Sample Gw from 20' to 25' BGS				
1004		25					Brn Tan	Same as above		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: 3 1/4" ID HSA (0.010" slot stainless well screen from ~7' to 12' BGS)
2" x 2' stainless split spoons on selected intervals (36' to 46')
140 pound hammer used to drive spoons

Converted to Well: Yes ✓ No ____ Well I.D. #: SA-TW-312 (S)
SA-TW-312 (I)
SA-TW-312 (D)

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NuCRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-312S/312I/312D
DATE: 9-14-09
GEOLOGIST: V. Shickora
DRILLER: J. Gucci

	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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1148		26					Brn Tan	FGR to MGR Sand Trace silt and fine pebbles	SM / SP	wet	0	0	0	0
											0	0	0	0
1151		30					Brn Tan	Same as above		wet	0	0	0	0
1155		32												
1250		33									0	0	0	0
										Add 5 gallons water to Augers				
1255		35					Brn Tan	Same as above		wet	0	0	0	0
1256	S-1	36				Soft								
1309		37	6 / 18			Stiff		FGR Sand - Trace MGR Sand and fine pebbles			0	0	0	0
1319	S-2	38	10 / 11	24" / 24"		Stiff	Brn Tan	Same as above		wet	0	0	0	0
1329		39	6 / 8							add 5 gallons water to Augers	0	0	0	0
1340	S-3	40	11 / 11	24" / 24"		Stiff	wht Tan	Same as above		wet	0	0	0	0
1349		41	16 / 20							Add 3 gallons water to Augers	0	0	0	0
1400	S-4	42	11 / 13	24" / 24"		Stiff	wht Tan	Same as above		wet	0	0	0	0
1408		43	6 / 12		312D well screen					Add ~ 5 gallons water to Augers	0	0	0	0
1414	S-5	44	8 / 8	24" / 24"		Medium Stiff	wht Tan	Same as above		wet	0	0	0	0
1421		45	5 / 6							add ~ 5 gallons water to Augers	0	0	0	0
1436		46	4 / 6	24" / 24"		Medium Stiff	Gry	Clayey Silt / Silty clay	CL	wet	0	0	0	0
					EoB				ML	sample Gw from 41' to 46' 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: - Descriptions from 0' to 36' conducted by observing cuttings brought to surface by Augers and are not accurate to depth

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: see page 1

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-313H/313I/313D
DATE: 9-22-09
GEOLOGIST: Vince Shickora
DRILLER: Pat McAdam

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0812		1					DK Brn	Silty Sand with some leaves, roots, etc		moist	0	0	0	0
							Brn	Silty FGR sand with Trace fine pebbles		moist	0	0	0	0
0816		5					Brn	Same as above		moist	0	0	0	0
											0	0	0	0
		9												
0821		10					Tan Brn	Same as above		very moist to wet	0	0	0	0
		11												
		12			313H well screen					Collect GW sample from 9' to 14' BGS (see sample logs)				
		13												
0825		14					Tan Brn	FGR to MGR Sand Trace Silt and fine pebbles		wet	0	0	0	0
0925		15												
										wet	0	0	0	0
0928		20					Tan Brn	Same as above		wet	0	0	0	0
					313I well screen					Collect GW sample from 20' to 25' BGS (see sample logs)	0	0	0	0
0933		25					Tan Brn	Same as above		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: 3¼" ID HSA (0.010" X 5' long stainless well screen)
2" X 2' stainless split spoons on selected intervals
140 pound downhole hammer

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-313H
SA-TW-313I
SA-TW-313D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-313S/313I/313D
DATE: 9-22-09
GEOLOGIST: V. Shickora
DRILLER: P. McAdam

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1040		26					Tan Brn	FGR to MGR Sand Trace silt and Fine pebbles		wet	0	0	0	0
										(No water added To Augers)				
											0	0	0	0
1044		30					Tan Brn	Same as above		wet	0	0	0	0
										(No water added To Augers)				
											0	0	0	0
1048		35					Tan Brn	Same as above		wet	0	0	0	0
										Drillers add 7 gallons water to Augers				
											0	0	0	0
		40					Tan Brn	Same as above			0	0	0	0
		41								Drillers add 5 gallons water to Augers				
1054		42												
1116	S-1	43	13/12				Tan Brn	FGR Sand Trace MGR Sand, silt and fine pebbles		wet	0	0	0	0
1130		44	12/14	20"/24"	313D well screen	Stiff								
1141	S-2	45	14/15				Tan Brn	Same as above (Some Mica Flakes)		wet	0	0	0	0
1153		46	13/10	19"/24"		Stiff				Drillers add 6 gallons water to Augers				
1156	S-3	47	14/13											
		48	14/9			Stiff	Gray	Silty clay / clayey silt Trace FGR sand		clay at ~ 47' BGS wet	0	0	0	0
					EOB					Collect GW sample from 42' to 47' 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): 0

Remarks: description of cuttings from 0' to 42' conducted by observing cuttings brought to surface by Augers and are not accurate to depth

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-314S/314I/314D
DATE: 9-15-09
GEOLOGIST: Vince Shickora
DRILLER: Jason Gucci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0940		1					Brn	Silty FGR Sand Trace Fine pebbles		moist	0	0	0	0
											0	0	0	0
0945		5					Brn	Same as above		moist	0	0	0	0
		7					Tan Brn	FGR to MGR Sand Trace silt and Fine Pebbles			0	0	0	0
		8								wet at ~ 7.5' BGS				
		9												
		10			314S well screen		Tan Brn	Same as above		wet	0	0	0	0
										collect sample				
0953 1059		12								from 7' to 12' BGS (see sample logs)	0	0	0	0
1054		15					Tan Brn	Same as above		wet	0	0	0	0
											0	0	0	0
1104		20					Tan Brn	Same as above		wet	0	0	0	0
					314I well screen					Sample Gw from 20' to 25' BGS (see sample logs)	0	0	0	0
1109		25								added ~ 5 gallons water	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: 3¼ ID HSA (0.010" slot stainless steel well screens x 5' long) 2" x 2' stainless steel split spoons on selected intervals (40' to 44' BGS) 14" pneumatic downhole hammer.

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-314S
SA-TW-314I
SA-TW-314D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Colverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-314S/314I/314D
DATE: 9-15-09
GEOLOGIST: V. Shickora
DRILLER: J. Gucci

	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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1249		26					Brn Tan	FGR to MGR Sand Trace silt and fine pebbles		wet 5 gallons water added to Augers	0	0	0	0
											0	0	0	0
1254		30					Brn Tan	Same as above		wet	0	0	0	0
										Add ~5 gallons water to Augers	0	0	0	0
1258		35					Brn Tan	Same as above		wet	0	0	0	0
										Add ~5 gallons water to Augers	0	0	0	0
		39												
1305 1310	S-1	40					Brn Tan	Same as above			0	0	0	0
		41	15/22		3140 well screen		Brn Tan	FGR Sand - Trace MGR Sand and fine pebbles		wet				
1319 1325	S-2	42	17/19	20"/24"		very stiff				Add ~3 gallons water to Augers				
		43	10/10				Brn Tan	Same as above		wet	0	0	0	0
		44	15/19	19"/24"		very stiff	Gry	clayey silt/silty clay		wet (~3 inches in spoon)				
		45			EOB					clay found at ~43.7' BGS	0	0	0	0
		50												

* When rock coring, enter rock brokeness.

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

Remarks: Descriptions from 0' to 40' BGS conducted by observing cuttings brought to surface by HSA and are not accurate to depth

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-314S
SA-TW-314I
SA-TW-314D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-315S/315I/315D
DATE: 9-16-09
GEOLOGIST: J. Birkoff / Vince Shickora
DRILLER: Jason Cucci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0950		1					Brn	Silty FGR sand Tr. fine pebbles		moist		0		0
		5												
0954							Brn	Silty F-M sand tr. pebbles		moist		0		0
		8												
		9					tan	F. sand tr. silt and pebbles						
		10			315S well screen									
0958		11					tan	F sand tr. silt and pebbles		moist		0	0	0
		12								collect sample from 08' to 13' BGS (see sample logs)				
1100		13												
		14												
		15					Tan	Same as above		wet	0	0	0	0
											0	0	0	0
1106		20					tan	Same as above		wet	0	0	0	0
					315I well screen					collect sample from 20' to 25' BGS (see sample logs)	0	0	0	0
1108		25					Tan	Same as above		Drillers add a 6 gallons water to hole	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: 3¼" ID HSA (0.010" slot stainless steel well screens 5' long) 2" x 2' stainless steel split spoon on select intervals (remaining intervals logged from drill cuttings) 140 lbs downhole hammer

Converted to Well: Yes ____ No X Well I.D. #: SA-TW-315S SA-TW-315I SA-TW-315D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calu
PROJECT NUMBER: CTO-160
DRILLING COMPANY: ~~Fair~~ Delta
DRILLING RIG: Failing

BORING No.: SA-TW315S / SA-TW315I / SA-TW315
DATE: 9/16/09
GEOLOGIST: J. Birkett / Vince Shickora
DRILLER: J. Cucci

	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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1241		25					Brn Tan	FGR Sand with Trace silt and fine pebbles		Add ~ 7 gallons water to Augers	0	0	0	0
		27					Brn Tan	FGR to MGR Sand with Trace fine pebbles		wet	0	0	0	0
1245		30					Brn Tan	Same as above		wet	0	0	0	0
										Drillers add ~ 6 gallons water to Augers				
											0	0	0	0
1248		35					Brn Tan	Same as above		wet	0	0	0	0
										Drillers add ~ 6 gallons water to Augers				
1254	S-1	39												
1256		40	1 / 5				Brn Tan	FGR to MGR Sand with Trace fine pebbles		wet	0	0	0	0
1303	S-2	41	14 / 28	24" / 24"		Very stiff				Drillers add ~ 3 gallons water to Augers				
1309		42	15 / 24		315D well screen		wht Tan	FGR Sand - Trace MGR Sand and fine pebbles		wet				
1320	S-3	43	13 / 13	24" / 24"		Stiff				Drillers add ~ 3 gallons water to Augers	0	0	0	0
1328		44	20 / 20											
1334		45	7 / 6	24" / 24"		Soft	Gry	Silty clay / clayey silt		wet	0	0	0	0
					EOB					clay at 44.7' BGS				
										collect sample from 40' to 45' BGS				
										(see sample logs)				
		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: 3 1/4" ID HSA (0.010" slot stainless steel well screen x 5' long)
2" x 2' S.S. split spoon on select intervals (remaining logged from cuttings)
140 lbs downhole hammer

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

Note → Descriptions of 0' to 39' BGS conducted by observing cutting brought to surface by Augers and are not accurate to depth.

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIAP Columbia
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-316S / 316I / 316D
DATE: 9-17-09
GEOLOGIST: Vince Shickora
DRILLER: Jason Guesi

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0938		1					Dk Brn	Silty FGR Sand Trace fine pebbles		moist	0	0	0	0
											0	0	0	0
0942		5					Brn	Same as above		moist	0	0	0	0
		7												
		8					Tan Brn	FGR to MGR Sand Trace silt / fine pebbles		very moist	0	0	0	0
		9								wet at ~8' BGS				
0945		10			316S well screen		Tan Brn	Same as above		wet	0	0	0	0
		11								collect sample from 7' to 12' BGS (see sample logs)				
0947		12												
		13									0	0	0	0
		14												
1037		15					Brn	FGR to MGR Sand. Trace CGR Sand / fine pebbles		wet	0	0	0	0
1040		20					Brn	Same as above		wet	0	0	0	0
					316I well screen									
											0	0	0	0
										Drillers add ~7 gallons water to hole				
1043		25					Brn	Same as above		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: 3 1/4 ID HSA (0.010" slot stainless steel well screen x 5' long)
2" X 2' stainless steel split spoons on selected intervals (36' to 38' BGS)
140 pound downhole hammer

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-316S
SA-TW-316I
SA-TW-316D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO 160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW316S/SA-TW316I/SA-TW316D
DATE: 9/17/09
GEOLOGIST: Birkett
DRILLER: J. Gucci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1238		25					Brn	FGR-MGR sand tr. silt and med pebbles		wet drillers add 3gal water	0	0	0	0
										drillers add ~3gal water				
		30					Brn	Same as above			0	0	0	0
1242														
										wet				
							Brn	FGR sand tr. silt and small pebbles		driller add ~3gal water	0	0	0	0
1244		35			TW 316D									
~~1244~~ JBB 1253	S-1	36	8 7	1.2/2		stiff	Brn	FGR-MGR sand tr silt and		Cutting saturated	0	0	0	0
		37	4 7				Brn Gray Gray	Micaceous F sand tr silt and pebbles silty clay		drillers add ~3gal water				
		38			EOB									
		39												
		40						~~Same as above~~ JBB						
		45												
		50												

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes X No ____ Well I.D. #: SA-TW316S, SA-TW316I, SA-TW316D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-317S / 317I / 317D
DATE: 9-18-09 / 9-21-09
GEOLOGIST: Vince Shickora
DRILLER: Jason Greci

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0948		1					Brn	FGR sand tr. silt and large pebbles		moist	0	0	0	0
											0	0	0	0
		5												
0953							tan	FGR sand tr. silt		moist	0	0	0	0
											0	0	0	0
		10					tan	Same as above		wet	0	0	0	0
					317S well screen									
										Collect GW sample from 10' to 15' BGS (see sample logs)	0	0	0	0
0956 1040		15					Tan	Same as above		wet	0	0	0	0
											0	0	0	0
		20					Tan	FGR to MGR sand trace silt and fine pebbles		wet	0	0	0	0
					317I well screen									
										Collect sample from 20' to 25' BGS (see sample logs)	0	0	0	0
1047		25					Brn Tan	Same as above		Drillers add 6 gallons water to augers	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: 3¼" ID HSA (slot 0.010" x 5' long x 2" wide stainless well screens)
2"x2' stainless split spoons on selected intervals
140 pound downhole hammer

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No _____ Well I.D. #: SA-TW-317S
SA-TW-317I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: CTO-160
DRILLING COMPANY: Delta
DRILLING RIG: Failing

BORING No.: SA-TW-317A / 317I / 317D
DATE: 9-18-09 / 9-21-09
GEOLOGIST: V. Shickora
DRILLER: J. Gucci / Pat McAdam

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
0957		26					Brn Tan	FGR to MGR Sand Trace silt / Fine pebbles		Drillers add 6 gallons water to Augers	0	0	0	0
9-21-08														
										wet	0	0	0	0
0803		30					Brn Tan	Same as above		Drillers add 7 gallons water to Augers	0	0	0	0
										wet	0	0	0	0
0808		35					Brn Tan	Same as above		wet	0	0	0	0
										Drillers add 5 gallons water to Augers				
										wet	0	0	0	0
		39												
0811		40					Brn Tan	Same as above		wet	0	0	0	0
0829	S-1	41	11/12			Stiff	Brn Tan	FGR to MGR Sand Trace silt and Fine pebbles		wet	0	0	0	0
		42	9/8	24"/24"	317D well screen					Drillers add 4 gallons water to Augers	0	0	0	0
0905	S-2	43	10/12			Stiff	Brn Tan	Same as above		wet				
		44	11/13	24"/24"										
0940	S-3	45	8/5							Sample CW from 39.5' to 44.5' BGS				
		46	6/5	19"/24"		Medium Stiff	Gry	Silty clay / clayey silt Trace FGR sand		wet (clay at 44.5' BGS)				
					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: Descriptions of 0.0' to 40' BGS conducted by observing cuttings brought to surface by HSA and are not accurate to depth

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

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:
[] QA Sample Type:

Sample ID No.: SA-TW301-15
Sample Location: SA-TW301
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time:	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (tan)	6.21	0.062	9.9	47.6	1.22	0.0	34

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.43	0.084	10.0	417	0.96	0.0	17
Monitor Reading (ppm): 0	0.5 gal	6.34	0.067	9.9	196	1.29	0.0	20
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1608								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 15' to 11' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW301-30
Sample Location: SA-TW301
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1646	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: (see below)	clear	6.40	0.165	10.9	16.2	1.34	0.0	-4

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.22	0.159	10.6	40.2	6.00	0.0	45
Monitor Reading (ppm): 0	0.5 gal	6.35	0.164	10.9	22.6	3.09	0.0	18
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30' ~~NA~~ BGS								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1636								
End Purge (hrs): 1646								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 30' to 26' BGS
- No odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [illegible]

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:
[] QA Sample Type:

Sample ID No.: SA-TW301-50
Sample Location: SA-TW301
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1725	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (Tea)	6.68	0.118	10.8	66.5	0.65	0.0	-21

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.74	0.114	10.6	334	0.97	0.0	-29
Monitor Reading (ppm): 0	0.5 gal	6.70	0.119	10.8	251	1.33	0.0	-27
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 50'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1715								
End Purge (hrs): 1725								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	6

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 50' to 46' BGS
- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-TW-DUP02

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:
[] QA Sample Type:

Sample ID No.: SA-TW302-15
Sample Location: SA-TW302
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1100	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: (see below)	Tinted (Tan)	5.69	0.098	10.0	79.5	3.91	0.0	162

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	5.80	0.130	10.1	184	3.61	0.0	163
Monitor Reading (ppm): 0	0.5 gal	5.76	0.112	10.1	102	3.84	0.0	160
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1050								
End Purge (hrs): 1100								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 15' to 11' BGS
- No odors observed

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	[signature]

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:
[] QA Sample Type:

Sample ID No.: SA-TW302-30
Sample Location: SA-TW302
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time:	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	clear	6.01	0.115	10.9	14.2	1.72	0.0	23

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	5.87	0.113	10.7	70.2	2.31	0.0	87
Monitor Reading (ppm): 0	0.5gal	5.99	0.115	10.8	17.6	2.05	0.0	47
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1120								
End Purge (hrs): 1130								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 30' to 26' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW302-54
Sample Location:
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1205	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	clear	6.27	0.120	11.9	22.0	3.39	0.0	30

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	6.22	0.136	12.0	317	1.08	0.0	-15
Monitor Reading (ppm): 0	0.5 gal	6.29	0.123	11.9	84.8	2.52	0.0	12
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 54'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1155								
End Purge (hrs): 1205								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 54' to 50' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW303-15
Sample Location: SA-TW303
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1357	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Clear	6.65	0.054	9.5	19.1	6.55	0.0	50

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.60	0.079	9.7	394	4.22	0.0	27
Monitor Reading (ppm): 0	0.5 gal	6.71	0.058	9.6	144	6.30	0.0	33
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1347								
End Purge (hrs): 1357								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 15' to 11' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW303-30
Sample Location: SA-TW303
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1426	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted	6.05	0.143	10.9	69.5	1.72	0.0	54

PURGE DATA: (Tan)

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.08	0.143	10.8	129	1.98	0.0	66
Monitor Reading (ppm): 0	0.5 gal	6.03	0.142	11.0	93.5	1.80	0.0	59
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1416								
End Purge (hrs): 1426								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 30' to 26' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW303-54
Sample Location: SA-TW303
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-26-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1510	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (Tan)	6.41	0.144	10.8	29.8	1.11	0.0	17

PURGE DATA:

Date: 3-26-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.45	0.148	10.8	322	2.04	0.0	33
Monitor Reading (ppm): 0	0.5 gal	6.37	0.142	10.9	39.5	1.86	0.0	31
Well Casing Diameter & Material								
Type: 1" Stainless steel								
Total Well Depth (TD):								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1458								
End Purge (hrs): 1510								
Total Purge Time (min): 12								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	9

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 54' to 50' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW304-15
Sample Location: SA-TW304
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-24-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time:								
Method: (see below)	cloudy (Brown)	6.26	0.123	9.6	228	0.75	0.0	-60

PURGE DATA:

Date: 3-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	6.23	0.141	9.4	299	0.92	0.0	-35
Monitor Reading (ppm): 0	0.5 gal	6.22	0.128	9.7	295	0.81	0.0	-56
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1320								
End Purge (hrs): 1330								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 15' to 11' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW304-30
Sample Location: SA-TW304
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-24-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1408	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (Tan)	6.59	0.128	10.4	42.5	2.31	0.0	-8

PURGE DATA:

Date: 3-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	6.60	0.158	10.3	247	1.73	0.0	-18
Monitor Reading (ppm): 0	0.5 gal	6.66	0.127	10.3	121	1.99	0.0	-10
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1358								
End Purge (hrs): 1408								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 30' to 26' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW304-50
Sample Location: SA-TW304
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-24-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1453	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Slight Tint (Tan)	6.50	0.167	11.3	37.4	2.09	0.0	45

PURGE DATA:

Date: 3-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	6.51	0.171	11.1	234	2.31	0.0	47
Monitor Reading (ppm): 0	0.5 gal	6.49	0.166	11.3	92.0	2.22	0.0	44
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 50'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1443								
End Purge (hrs): 1453								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~ 1								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	6

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 50' to 46' BGS
- No odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-TW-DUP01

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:
[] QA Sample Type:

Sample ID No.: S4-TW305-15
Sample Location: S4-TW 305
Sampled By: ~~Vince Shickora~~ Jacob Bikett
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (µS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ ORP (mV)
Date: 3/25/09								
Time: 0940								
Method: (see below)	lt. brown	6.07	0.014	8.7	615.0	5.45	0.0	-20

PURGE DATA:

	~~Time~~ Volume	pH	S.C.	Temp. °C	Turbidity	DO	Salinity	~~Other~~ ORP
Date: 3/25/09								
Method: peristaltic pump		~~6.59~~	~~0.025~~	~~7.6~~	~~-5.0 blank~~	~~9.66~~	~~0.0~~	~~68~~
Monitor Reading (ppm): 0	0930	6.48	0.120	8.3	-5.0 blank	6.11	0.0	-60
Well Casing Diameter & Material	0935	6.19	0.102	8.9	-5.0 blank	5.29	0.0	-38
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 0924								
End Purge (hrs): 0940								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1.5								

JBB 3/26 NA

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	yes

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Jacob Bikett

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:
[] QA Sample Type:

Sample ID No.: SA-TW305-30
Sample Location: SA-TW305
Sampled By: Vince Shickora
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~~ ORP (mV)
Date: 3/25/09								
Time: 1019 Time								
Method: (see below) 1019	clear	6.15	0.084	10.9	24.4	6.26	0.0	51

PURGE DATA:

	~~Volume~~ Time	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Date: 3/25/09								
Method: peristaltic pump	1009	6.31	0.103	11.2	-5.0 blink	5.63	0.0	20
Monitor Reading (ppm): 0	1014	6.10	0.086	11.0	141.0	4.35	0.0	44
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1009								
End Purge (hrs): 1019								
Total Purge Time (min): 10								
Total Vol. Purged(gal/L): ~15 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	yes

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Jack Beckett

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:
[] QA Sample Type:

Sample ID No.: SA-TW305-55
Sample Location: SA-TW305
Sampled By: ~~Vince Shickora~~ Jacob Birkoff
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~~ ORP (mV)
Date: 3/25/09								
Time: 1125								
Method: (see below)	clear	6.26	0.133	12.1	65.8	3.34	0.0	58

PURGE DATA:

	~~Volume~~ Time	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Date: 3/25/09								
Method: peristaltic pump	1115	6.22	0.164	12.2	-5.0 blink	3.50	0.0	27
Monitor Reading (ppm): 0	1120	6.38	0.130	11.8	274.0	2.75	0.0	33
Well Casing Diameter & Material				12.1			0.0	58
Type: 1" stainless steel								
Total Well Depth (TD): 55'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1114								
End Purge (hrs): 1125								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	yes

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

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:
[] QA Sample Type:

Sample ID No.: SA-TW306-15
Sample Location: SA-TW306
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-25-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time:								
Method: (see below)	Tinted	6.51	0.073	10.0	55.4	4.38	0.0	15

PURGE DATA:

Date: 3-25-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	6.71	0.080	9.0	304	5.99	0.0	30
Monitor Reading (ppm): 0	0.5 gal	6.57	0.075	9.8	101	4.47	0.0	17
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1312								
End Purge (hrs): 1322								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screened exposed from 15' to 11' 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:
[] QA Sample Type:

Sample ID No.: SA-TW306-30
Sample Location: SA-TW306
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-25-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1400	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	cloudy (Tan)	6.59	0.072	12.0	171	0.93	0.0	-26

PURGE DATA:

Date: 3-25-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	Initial	6.60	0.077	12.3	272	1.47	0.0	-10
Monitor Reading (ppm): 0	0.5 gal	6.62	0.074	12.2	180	1.02	0.0	-22
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1347								
End Purge (hrs): 1400								
Total Purge Time (min): 13								
Total Vol. Purged (gal/L): ~1.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 30' to 26' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: SA-TW306-51
Sample Location: SA-TW306
Sampled By: Vince Shickora
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 ORP
Date: 3-25-09								
Time: 1555								
Method: (see below)	Tinted (Tan)	7.40	0.135	12.4	91.0	2.94	0.0	-32

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Date: 3-25-09								
Method: peristaltic pump	Initial	7.58	0.137	12.4	556	2.01	0.0	-100
Monitor Reading (ppm): 0	0.5 gal	7.44	0.135	12.2	198	2.67	0.0	-54
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 51								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1545								
End Purge (hrs): 1555								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 51' to 48' BGS
- No odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

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: Temp. Geoprobe well
[] QA Sample Type:

Sample ID No.: SA-TW307-15
Sample Location: SA-TW307
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-23-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1530	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (Brown)	5.13	0.083	8.0	80.2	7.22	0.0	202

PURGE DATA:

Date: 3-23-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	initial	5.55	0.127	8.2	99.4	7.63	0.0	187
Monitor Reading (ppm): 0	0.5 gal	5.29	0.090	8.1	88.6	7.43	0.0	198
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1520								
End Purge (hrs): 1530								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~ 1 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 15' BGS to 11' 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: Temp. Geoprobe well
[] QA Sample Type:

Sample ID No.: SA-TW307-30
Sample Location: SA-TW307
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-23-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1625	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: (see below)	Clear	5.60	0.087	8.3	17.5	2.09	0.0	76

PURGE DATA:

Date: 3-23-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	initial	5.71	0.087	8.3	49.9	2.88	0.0	114
Monitor Reading (ppm): 0	0.5 gal	5.57	0.088	8.4	30.2	2.18	0.0	85
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1615								
End Purge (hrs): 1625								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 30' BGS to 26' BGS
- No stains or odors 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: Temp. Geoprobe well
[] QA Sample Type:

Sample ID No.: SA-TW307-49
Sample Location: SA-TW307
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-23-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1720	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: (see below)	Tinted (Brown)	5.59	0.129	8.0	107.4	2.77	0.0	1.38

PURGE DATA:

Date: 3-23-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ ORP
Method: peristaltic pump	initial	6.05	0.130	7.9	199.7	3.89	0.0	127
Monitor Reading (ppm): 0	0.5gal	5.80	0.132	7.9	180.6	2.91	0.0	1.33
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 49'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1710								
End Purge (hrs): 1720								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 49' to 45' BGS
- No stains or odors 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: Temp Geoprobe / GW Grab
[] QA Sample Type:

Sample ID No.: SA-TW308-15
Sample Location: TW 308
Sampled By: Vince Shickora / RMS
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: 3-24-09								
Time: 0852								
Method: (see below)	Clear	7.03	0.348	2.8	0.0	13.77	0.0	70

PURGE DATA:

	Volume	pH	S.C.	Temp. °C	Turbidity	DO	Salinity	Other ORP
Date: 3-24-09								
Method: peristaltic pump	Initial	6.05	0.346	4.2	-5	5.54	0.0	86
Monitor Reading (ppm): 0	0.5gal	5.97	0.23	2.3	75.4	13.52	0.0	111
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 0842								
End Purge (hrs): 0852								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~0.5gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Screenpoint sampler exposed from 10-15' bgs
- No odors observed
- Some air observed in tubing during sampling

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: Groundwater Grab / Temp. Geoprobe
[] QA Sample Type:

Sample ID No.: SA-TW308-30
Sample Location: TW 308
Sampled By: Vince Shickora / RMS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-24-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0951	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	cloudy	6.42	0.66	8.2	178	11.13	0.0	22

PURGE DATA:

Date: 3-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP
Method: peristaltic pump	initial	7.18	0.073	6.8	646	11.71	0.0	11
Monitor Reading (ppm): 0 0	0.6gal	6.62	0.066	7.8	197	11.34	0.0	~~25~~ 17
Well Casing Diameter & Material								
Type: 1" Stainless Steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 0946								
End Purge (hrs): 0951								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	9

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Screenpoint sampler exposed from 26-30' bgs
- Slight odor / non-discript
- Slightly cloudy (tan)

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

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Groundwater Grab / Temp Geoprobe
[] QA Sample Type:

Sample ID No.: SA-TW308-49
Sample Location: TW308
Sampled By: Vince Shickora / RMS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-24-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1034	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: (see below)	clear	6.54	0.122	9.1	0.0	7.92	0.0	74

PURGE DATA:

Date: 3-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP
Method: peristaltic pump	initial	6.54	0.118	8.7	—	7.60	0.0	67
Monitor Reading (ppm): 0.0	0.5 gal	6.54	0.122	9.1	-	7.92	0.0	78
Well Casing Diameter & Material								
Type: 1" Stainless Steel								
Total Well Depth (TD): 49'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1024								
End Purge (hrs): 1034								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): ~1 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Screen point sampler exposed from 45-49' bgs
- No odor 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:
[] QA Sample Type:

Sample ID No.: SA-TW309-15
Sample Location: SA-TW309
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-27-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1115	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (Tan)	6.21	0.178	11.0	84.0	8.66	0.0	148

PURGE DATA:

Date: 3-27-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	5.77	0.253	11.5	407	8.52	0.0	166
Monitor Reading (ppm): 0	0.5 gal	6.01	0.180	11.2	146	8.63	0.0	158
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 15'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1105								
End Purge (hrs): 1115								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 15' to 11' BGS
- No odors observed.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	
—	—	[signature]

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:
[] QA Sample Type:

Sample ID No.: SA-TW309-30
Sample Location: SA-TW309
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-27-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1147	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Tinted (Tan)	6.33	0.179	13.0	60.1	2.86	0.0	98

PURGE DATA:

Date: 3-27-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.38	0.178	12.4	357	2.74	0.0	112
Monitor Reading (ppm): 0	0.5 gal	6.35	0.178	12.9	53.7	3.07	0.0	108
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 30'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1137								
End Purge (hrs): 1147								
Total Purge Time (min): 10								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- well screen exposed from 30' to 26' BGS
- No odors 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:
[] QA Sample Type:

Sample ID No.: 5A-TW309-54
Sample Location: 5A-TW309
Sampled By: Vince Shickora
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-27-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1220	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	ORP
Method: (see below)	Clear	6.05	0.145	13.9	2.0	2.34	0.0	105

PURGE DATA:

Date: 3-27-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic pump	Initial	6.38	0.164	14.0	488	2.20	0.0	98
Monitor Reading (ppm): 0	0.5 gal	6.13	0.145	13.8	13.5	2.77	0.0	104
Well Casing Diameter & Material								
Type: 1" stainless steel								
Total Well Depth (TD): 54'								
Static Water Level (WL): NA								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 1208								
End Purge (hrs): 1220								
Total Purge Time (min): 12								
Total Vol. Purged (gal/L): 1.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL / Ice	3 X 40ml Vials	3

OBSERVATIONS / NOTES:

Groundwater grab sample collected from temporary Geoprobe soil boring using peristaltic pump and 1/4 inch PE tubing.

- Geoprobe well screen exposed from 54' to 50' BGS
- No odors 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.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-310-1015-20090924
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-24-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1155	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Redi-Flow pump	clear	5.40	0.073	18.05	27.1	9.72	—	140

PURGE DATA:

Date: 9-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Method: Redi-Flow pump	1 gallon	5.84	0.190	19.60	747	10.87	63	Very cloudy Brown
Monitor Reading (ppm): 0.0	3 gallon	5.68	0.105	18.97	554	10.39	79	cloudy-Brown
Well Casing Diameter & Material	5 gallon	5.76	0.090	18.62	387	9.92	86	cloudy-Brown
Type: 2" steel	7 gallon	5.70	0.081	18.28	132	9.79	100	Tinted-Tan
Total Well Depth (TD): 15'	10 gallon	5.59	0.076	18.09	47.6	9.74	125	Slight Tint Tan
Static Water Level (WL): 8.85'	12 gallon	5.40	0.073	18.05	27.1	9.72	140	clear
One Casing Volume(gal/L):								
Start Purge (hrs): 1132								
End Purge (hrs): 1155								
Total Purge Time (min): 23								
Total Vol. Purged (gal/L): 12								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 10' to 15' BGS (screen interval)
- Pump set in well at ~ 14.5' BGS
- Pump flow rate ~ 0.5 gpm
- No stains or odors observed.
- Sample split with Suffolk County Health Dept.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-310-2429-20090924
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-24-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1334								
Method: Redi-flow pump	clear	5.64	0.093	15.29	12.0	9.92	—	-28

PURGE DATA:

Date: 9-24-09	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Method: Redi-flow pump	1 gallon	7.94	0.189	19.47	687	11.48	98	cloudy-Brown
Monitor Reading (ppm): 0.0	2 gallon	6.85	0.150	18.30	407	11.02	56	cloudy-Brown
Well Casing Diameter & Material	4 gallon	6.20	0.117	16.96	90.7	10.62	32	slight Tint Tan
Type: 2" steel	7 gallon	6.12	0.102	16.29	47.3	10.47	9	slight Tint Tan
Total Well Depth (TD): 28'	10 gallon	6.02	0.094	15.88	29.6	10.22	-11	clear
Static Water Level (WL): 8.85'	13 gallon	5.89	0.095	15.42	16.8	10.01	-23	clear
One Casing Volume(gal/L):	15 gallon	5.64	0.093	15.29	12.0	9.92	-28	clear
Start Purge (hrs): 1305								
End Purge (hrs): 1334								
Total Purge Time (min): 29								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml Vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 24' to 29' BGS (screen interval)
- Pump set in well at ~ 27.5' BGS
- Pump flow rate ~ 0.5 gpm
- No stains or odors observed
- Sample split with Suffolk County Health Department.

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.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-318-4853-20090925
Sample Location: Southern Area
Sampled By: VAS
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 ORP
Date: 9-25-09								
Time: 0847								
Method: Redi-Flow pump	clear	6.43	0.130	12.78	6.8	10.29	—	12

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Date: 9-25-09								
Method: Redi-Flow pump	1 gallon	7.89	0.206	14.69	884	11.22	47	very Cloudy Brown
Monitor Reading (ppm): 0.0	4 gallon	7.84	0.172	13.61	397	11.02	30	cloudy-Brown
Well Casing Diameter & Material	8 gallon	7.67	0.161	13.05	112	10.87	9	Tinted-Tan
Type: 2" steel	13 gallon	7.43	0.155	12.92	56.6	10.26	-26	slight Tint Tan
Total Well Depth (TD): 53	17 gallon	7.19	0.146	12.90	31.9	10.34	-30	very Slight Tint-Tan
Static Water Level (WL): 8.90	21 gallon	6.91	0.140	12.83	22.4	10.38	-21	clear
One Casing Volume(gal/L):	25 gallon	6.70	0.136	12.79	15.4	10.41	-10	clear
Start Purge (hrs): 0806	29 gallon	6.58	0.134	12.77	10.2	10.37	0	clear
End Purge (hrs): 0847	33 gallon	6.49	0.133	12.75	9.7	10.31	5	clear
Total Purge Time (min): 41	37 gallon	6.46	0.132	12.76	8.4	10.33	9	clear
Total Vol. Purged (gal/L): 40	40 gallon	6.43	0.130	12.78	6.8	10.29	12	clear

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 48' to 53' BGS (screen zone)
- pump set in well at ~ 52.5' BGS
- pump flow rate ~ 1.0 gpm
- No stains or odors observed
- Sample split with Suffolk County Health Dept.

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.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary Well point
[] QA Sample Type:

Sample ID No.: SA-TW-311-1015-20090923
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-23-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1050	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Redi-Flow pump	Clear	5.90	0.057	17.32	1.5	9.42	–	127

PURGE DATA:

Date: 9-23-09	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Method: Redi-Flow pump	1 gallon	6.25	0.176	18.73	594	10.50	165	cloudy-Brown
Monitor Reading (ppm): 0.0	3 gallon	6.37	0.098	18.03	113	10.39	125	Tinted-Tan
Well Casing Diameter & Material	5 gallon	6.31	0.075	17.44	34.7	9.92	129	Slight Tint Tan
Type: 2" steel	7 gallon	6.18	0.063	17.39	8.0	9.61	122	clear
Total Well Depth (TD): 15'	10 gallon	5.90	0.057	17.32	1.5	9.42	127	clear
Static Water Level (WL): 8.90'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1030								
End Purge (hrs): 1050								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 10' to 15' BGS (screen interval)
- Pump set in well at ~ 14.5' BGS
- Pump flow rate ~ 0.5 gpm
- Sample split with Suffolk County Health Department.

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.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-311-2328-20090923
Sample Location: Southern Area
Sampled By: VAS
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 ORP
Date: 9-23-09								
Time: 1202								
Method: Redi-Flow pump	Slight Tint Tan	5.25	0.055	15.42	39.0	9.77	—	102

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Date: 9-23-09								
Method: Redi-Flow pump	1 gallon	6.25	0.107	19.21	773	10.84	52	cloudy-Brown
Monitor Reading (ppm): 0.0	3 gallon	6.05	0.081	17.59	398	10.22	62	cloudy-Brown
Well Casing Diameter & Material	5 gallon	5.81	0.066	16.30	147	10.08	74	Tinted-Tan
Type: 2" steel	7 gallon	5.42	0.058	15.70	75	9.81	95	Slight Tint Tan
Total Well Depth (TD): 28'	10 gallon	5.25	0.055	15.42	39.0	9.77	102	Slight Tint Tan
Static Water Level (WL): 8.95								
One Casing Volume(gal/L):								
Start Purge (hrs): 1142								
End Purge (hrs): 1202								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 23' to 28' BGS (screen interval)
- Pump set in well at ~ 27.5' BGS
- Pump flow rate ~ 0.5 gpm
- No odors or stains observed
- Sample split with Suffolk County Health Department.

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.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-311-4651-20090924
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-23-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0850								
Method: Redi-Flow pump	Clear	5.89	0.130	14.15	8.9	10.10	—	142

PURGE DATA:

Date: 9-23-09	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Method: Redi-flow pump	1 gallon	6.30	0.228	16.90	1129	11.78	213	very cloudy Brown
Monitor Reading (ppm): 0.0	4 gallon	6.24	0.170	15.16	399	11.12	201	cloudy-Brown
Well Casing Diameter & Material	8 gallon	6.19	0.161	14.83	102	10.97	189	Tinted-Tan
Type: 2" steel	12 gallon	6.10	0.146	14.34	21.5	10.67	164	clear
Total Well Depth (TD): 51'	17 gallon	6.07	0.144	14.22	17.7	10.49	159	clear
Static Water Level (WL): 8.95'	22 gallon	6.04	0.141	14.18	14.3	10.44	154	clear
One Casing Volume(gal/L):	27 gallon	5.99	0.138	14.20	10.0	10.33	152	clear
Start Purge (hrs): 0809	32 gallons	5.96	0.135	14.19	9.9	10.28	148	clear
End Purge (hrs): 0850	36 gallons	5.92	0.131	14.17	9.3	10.16	144	clear
Total Purge Time (min): 41	40 gallons	5.89	0.130	14.15	8.9	10.10	142	clear
Total Vol. Purged (gal/L): 40								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 X 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 46' to 51' BGS (screen interval)
- Pump set in well at ~ 50.5'
- Pump flow rate ~ 1.0 gpm
- No stains or odors observed
- sample split with Suffolk County Health Dept.

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
GROUNDWATER INVEST.

Sample ID No.: SA-TW-312-0712-20090914 ~~SA-TW-312-20090911~~ VAS
Sample Location: Southern Area
Sampled By: VAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-14-09								
Time: 0940								
Method: Redi-Flow pump	Clear	4.61	0.053	18.90	16.5	12.15	191	—

PURGE DATA:

	gallons							
Date: 9-14-09								
Method: Redi-Flow pump								
Monitor Reading (ppm): 0.0		~~SEE LOW FLOW PURGE DATA SHEET, Page 2~~ VAS						
Well Casing Diameter & Material Type: 2 inch steel	1	4.28	0.090	19.86	34.5	11.60	208	cloudy Brown
Total Well Depth (TD): 12'	4	4.47	0.060	19.05	102	12.01	194	Tinted Tan
Static Water Level (WL):	8	4.58	0.055	18.85	64.2	12.23	183	clear
One Casing Volume(gal/L):	10	4.61	0.053	18.90	16.5	12.15	191	
Start Purge (hrs): 0920								
End Purge (hrs): 0940								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Temporary well installed to 12' BGS
- Pump set in well at ~ 11.5' BGS
- Pump flow rate ~ 0.5 gpm
- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	VAS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-TW-312-2025-20090914
Sample Location: Southern Area
Sampled By: VAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-14-09								
Time: 1132								
Method: Redi-Flow pump	Clear	5.18	0.042	16.31	18.7	12.43	146	—

PURGE DATA:

	Gallons							
Date: 9-14-09								
Method: Redi-Flow pump								
Monitor Reading (ppm): 0.0		~~SEE LOW FLOW PURGE DATA SHEET, Page 2~~ (VAS)						
Well Casing Diameter & Material Type: 2 inch steel	1	4.11	0.078	20.60	399	12.79	235	Cloudy Brown
Total Well Depth (TD): 25'	3	5.03	0.056	17.98	221	12.97	194	Cloudy Brown
Static Water Level (WL): 7.2'	5	5.22	0.046	17.19	113	12.84	170	Tinted (Tan)
One Casing Volume(gal/L):	8	5.20	0.043	16.87	29.8	12.69	159	Slight Tint Tan
Start Purge (hrs): 1112	10	5.18	0.042	16.31	18.7	12.43	146	clear
End Purge (hrs): 1132								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Temporary well installed from 20' to 25' BGS
- Pump set in well at ~24' BGS
- Pump flow rate ~0.5 gpm
- 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.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-TW-312-4146-20090914
Sample Location: Southern Area
Sampled By: VAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-14-09								
Time: 1520								
Method: Redi-Flow pump	Tinted (Tea)	5.08	0.100	15.65	30.4	9.73	143	—

PURGE DATA:

	gallons							
Date: 9-14-09								
Method: Redi-Flow pump								
Monitor Reading (ppm): 0.0		~~SEE LOW FLOW PURGE DATA SHEET, Page 2~~ VAS						
Well Casing Diameter & Material Type: 2 inch steel	1	4.59	0.108	21.60	950	12.02	125	very cloudy gray
Total Well Depth (TD): 46'	3	5.44	0.103	17.61	796	12.38	64	very cloudy gray
Static Water Level (WL): 7.3'	5	5.48	0.102	16.31	758	8.39	66	cloudy-gray
One Casing Volume(gal/L):	8	5.32	0.101	16.42	430	8.90	87	cloudy-gray
Start Purge (hrs): 1450	10	5.26	0.100	15.85	390	9.21	104	cloudy-gray
End Purge (hrs): 1520	16	5.12	0.100	15.90	311	9.47	123	cloudy-gray
Total Purge Time (min): 30	23	5.10	0.099	15.78	112	9.69	132	Tinted-gray
Total Vol. Purged (gal/L): 30	30	5.08	0.100	15.65	30.4	9.73	143	slight tint (Tea)

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Temporary well installed from 41' to 46' BGS
- Pump set in well at ~ 45.5' BGS
- Pump flow rate ~ 1.0 gpm
- Removed 30 gallons in order to remove ~ 23 gallons of potable water added during drilling of well

- No stains or odors observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-317-0914-20090922
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-22-09 Time: 0905	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	~~Salinity~~ ORP (mv)	Other
Method: Redi-Flow pump	clear	6.65	0.090	15.42	19.1	9.30	150	—

PURGE DATA:

Date: 9-22-09	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Method: Redi-Flow pump	1 gallon	6.03	0.207	15.63	688	10.31	202	cloudy-Brown
Monitor Reading (ppm): 0.0	3 gallon	6.45	0.101	15.50	194	10.22	153	Tinted-Brown
Well Casing Diameter & Material	5 gallon	6.57	0.093	15.45	34.3	9.86	151	Slight Tint Tan
Type: 2" steel	7 gallon	6.62	0.091	15.41	20.2	9.55	150	clear
Total Well Depth (TD): 14'	10 gallon	6.65	0.090	15.42	19.1	9.30	150	clear
Static Water Level (WL): 8.4'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0845								
End Purge (hrs): 0905								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3X 40 ml vials	9

OBSERVATIONS / NOTES:

- Temporary well installed from 9' to 14' BGS (screen interval)
- Pump set in well at ~ 13.5' BGS
- Pump flow rate ~ 0.5 gpm.
- No stains or odors observed
- Sample split with Suffolk County Health Department.

Circle if Applicable:

MS/MSD: Yes

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-313-2025-20090922
Sample Location: Southern Area
Sampled By: VAS
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 (%)~~ ORP	Other
Date: 9-22-09								
Time: 1014								
Method: Redi-Flow pump	Tinted-Tan	6.52	0.080	14.35	77.0	9.42	65	—

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Date: 9-22-09								
Method: Redi-Flow pump	1 gallon	7.11	0.148	16.30	574	10.88	52	Cloudy-Brown
Monitor Reading (ppm): 0.0	3 gallon	6.77	0.101	15.29	307	9.80	57	Cloudy-Brown
Well Casing Diameter & Material	5 gallon	6.62	0.090	14.78	153	9.60	63	Tinted-Brown
Type: 2" steel	7 gallon	6.55	0.085	14.48	87.4	9.47	64	Tinted-Tan
Total Well Depth (TD): 25'	10 gallon	6.52	0.080	14.35	77.0	9.42	65	Tinted-Tan
Static Water Level (WL): 8.4'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0954								
End Purge (hrs): 1014								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 20' to 25' BGS (screen interval)
- Pump set in well at ~24.5' BGS
- Pump flow rate ~ 0.5 gpm
- No stains or odors observed.
- Sample split with Suffolk County Health Department.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): VAS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-313-4247-20090922
Sample Location: Southern Area
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-22-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1335								
Method: Redi-flow pump	cloudy Gray	8.22	0.207	17.09	658	8.73	—	78

PURGE DATA:

Date: 9-22-09	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Method: Redi-flow pump	1 gallon	7.88	0.260	17.91	1129	10.64	34	very cloudy Gray
Monitor Reading (ppm): 0.0	4 gallons	8.35	0.261	16.80	988	10.15	40	very cloudy Gray
Well Casing Diameter & Material	8 gallons	8.40	0.268	16.82	840	9.31	29	very cloudy Gray
Type: 2" steel	10 gallons	8.43	0.239	17.00	835	8.88	30	very cloudy Gray
Total Well Depth (TD): 47'	13 gallons	8.39	0.217	17.02	800	8.74	33	very cloudy Gray
Static Water Level (WL): 8.4'	17 gallons	8.20	0.207	17.05	722	8.68	44	very cloudy Gray
One Casing Volume(gal/L):	20 gallons	8.23	0.208	17.10	700	8.62	57	cloudy-Gray
Start Purge (hrs): 1255	24 gallons	8.25	0.210	17.11	688	8.69	62	cloudy-Gray
End Purge (hrs): 1335	28 gallons	8.24	0.208	17.10	669	8.71	73	cloudy-Gray
Total Purge Time (min): 40	30 gallons	8.22	0.207	17.09	658	8.73	78	cloudy-Gray
Total Vol. Purged (gal/L): 30								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	6

OBSERVATIONS / NOTES:

- Temporary well installed from 42' to 47' BGS (screen interval)
- Pump set in well at ~ 46.5' BGS
- Pump flow rate ~ 1.0 gpm
- No stains or odors observed
- Sample split with Suffolk County Health Dept.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-TW-DUP07-20090922

Signature(s): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-TW-314-0712-20090915
Sample Location: Southern Area
Sampled By: VAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-15-09								
Time: 1045								
Method: Redi-Flow pump	Slight Tint Tan	5.02	0.055	17.38	30.2	9.73	-32	—

PURGE DATA:

	gallons							
Date: 9-15-09								
Method: Redi-Flow pump								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2 inch Steel	1	4.23	0.175	18.90	887	10.78	99	Very cloudy Brown
Total Well Depth (TD): 12'	3	4.64	0.063	18.03	349	10.06	-4	cloudy-Brown
Static Water Level (WL): 7.2'	5	4.92	0.056	17.66	172	10.08	-26	Tinted-Brown
One Casing Volume(gal/L):	8	4.96	0.055	17.43	54	9.82	-29	Slight Tint Tan
Start Purge (hrs): 1025	10	5.02	0.055	17.38	30.2	9.73	-32	Slight Tint Tan
End Purge (hrs): 1045								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Temporary well installed from 7' to 12' BGS.
- pump set in well at ~ 11.5' BGS
- pump flow rate ~ 0.5 gpm
- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-TW-314-2025-20090915
Sample Location: Southern Area
Sampled By: VAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-15-09								
Time: 1202								
Method: Redi-flow pump	Slight Tint Tan	5.88	0.072	14.92	25.7	10.13	83	—

PURGE DATA:

Date: 9-15-09								
Method: Redi-flow pump								
Monitor Reading (ppm): 0.0		SEE LOW FLOW PURGE DATA SHEET, Page 2						
Well Casing Diameter & Material	gallons							
Type: 2 inch steel	1	5.36	0.095	18.41	458	10.50	78	cloudy-Brown
Total Well Depth (TD): 25'	3.5	5.89	0.086	16.79	223	10.39	42	cloudy-Brown
Static Water Level (WL): 7.3'	7	5.92	0.077	15.83	81	10.21	60	Tinted-Tan
One Casing Volume(gal/L):	10.5	5.91	0.073	15.16	47.5	10.11	73	Slight Tint Tan
Start Purge (hrs): 1132	13	5.90	0.072	14.96	31.2	10.07	76	Slight Tint Tan
End Purge (hrs): 1202	15	5.88	0.072	14.92	25.7	10.13	83	Slight Tint Tan
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (See above / below)

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. [ ]

- Temporary well point installed from 20' to 25' BGS
- Pump set in well at ~24.5' BGS
- Pump flow rate ~ 0.5 gpm
- No stains or odors 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
GROUNDWATER INVEST.

Sample ID No.: SA-TW-314-3944-20090915
Sample Location: Southern Area
Sampled By: VAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-15-09								
Time: 1425								
Method: Redi-Flow pump	clear	5.61	0.092	14.67	13.2	10.74	118	—

PURGE DATA:

Date: 9-15-09								
Method: Redi-Flow pump								
Monitor Reading (ppm): 0.0		SEE LOW FLOW PURGE DATA SHEET, Page 2						
Well Casing Diameter & Material	gallons							
Type: 2 inch steel	1	5.28	0.099	18.16	1067	11.23	68	very cloudy Gray
Total Well Depth (TD): 44'	5	5.78	0.096	15.84	149	11.02	55	cloudy-Gray
Static Water Level (WL): 7.3'	10	5.69	0.093	15.12	51.3	10.96	73	Tinted-Gray
One Casing Volume(gal/L):	15	5.62	0.093	14.95	42.0	10.87	95	Slight Tint Gray
Start Purge (hrs): 1352	20	5.57	0.093	14.81	20.7	10.72	113	clear
End Purge (hrs): 1425	25	5.63	0.092	14.76	16.5	10.70	116	clear
Total Purge Time (min): 33	30.5	5.61	0.092	14.67	13.2	10.74	118	clear
Total Vol. Purged (gal/L): 30.5								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (See above/below)

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. [ ]

- Temporary well installed from 39' to 44' BGS
- pump set in well at ~ 43.5' BGS
- pump flow rate ~ 1.0 gpm
- removed 30 gallons during purge in order to remove additional 23 gallons of potable water added to Aquifer during drilling activities

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
GROUNDWATER INVEST.

Sample ID No.: SA-TW-315-0813-20090916
Sample Location: Southern Area
Sampled By: JBB

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well Point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-16-09								
Time: 1050								
Method: Redi-Flow pump	clear	4.79	0.073	17.90	2.29	7.62	223	—

PURGE DATA:

	Time								
Date: 9-16-09	1032 clear	4.79	0.146	1983	95.3	8.33	253	—	
Method: Redi-flow pump	light brown							Time	~~Gallons~~
Monitor Reading (ppm): 0		SEE LOW FLOW PURGE DATA SHEET, Page 2						Gallons	
Well Casing Diameter & Material	1032	5.03	0.086	18.75	26.0	7.41	223	2	
Type: 2 inch steel	1034	5.05	0.077	18.34	13.3	8.02	208	3	
Total Well Depth (TD): 13	1039 clear	5.00	0.074	18.08	3.83	7.81	204	5.5	
Static Water Level (WL): 9.89	1044	4.90	0.073	17.89	6.17	7.64	215	8	
One Casing Volume(gal/L):	1048	4.79	0.073	17.90	2.29	7.62	223	10.5	
Start Purge (hrs): 1024									
End Purge (hrs): 1050									
Total Purge Time (min): 26									
Total Vol. Purged (gal/L): 11									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

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. [ ]

(see above)
- Temporary well installed from 8' to 13' bgs
- Pump set in well at ~12.75' bgs
- Pump flow rate ~0.5 gpm

Split sample w/ Suffolk Health Dept

Circle if Applicable:

~~MS/MSD~~ Duplicate ID No.:

Signature(s): Fred Barkoff

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-TW 315-2025-200909 16
Sample Location: Southern Area
Sampled By: JBG

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temp. well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/16/09								
Time: 1155								
Method: Redi Flo pump	clear	5.56	0.093	15.65	6.98	7.87	101	—

PURGE DATA:

Date: 9/16/09									
Method: Redi Flo pump									
Monitor Reading (ppm): 0	Gallons	SEE LOW FLOW PURGE DATA SHEET, Page 2						color	Time
Well Casing Diameter & Material	1	5.87	0.152	19.46	816	15.40	157	lt brown	1124
Type: 2" steel	2	6.02	0.135	18.42	135	8.59	78	lt brown	1128
Total Well Depth (TD): 25	5	5.92	0.111	17.55	41.4	8.20	69	very light brn	1134
Static Water Level (WL): 9.89	8	5.75	0.101	16.81	16.0	8.13	84	clear	1140
One Casing Volume(gal/L):	10	5.64	0.096	16.37	11.7	8.08	98	clear	1144
Start Purge (hrs): 1124	13	5.59	0.094	16.02	10.45	7.98	103	clear	1150
End Purge (hrs): 1155	16	5.56	0.093	15.65	6.98	7.87	101	clear	1154
Total Purge Time (min): 31									
Total Vol. Purged (gal/L): 16 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	no

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted.

(see above)
- Temp well installed from 20'-25' bgs
- Pump set @ 24' bgs
- Pump flow rate ~0.5 gal/min

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. [ ]

Split sample w/ Suffolk County Health Dept

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Jack Beckett

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: S1-TW315-4345-20090916
Sample Location: Southern Area
Sampled By: JBD

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temp Well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/16/09								
Time: 1436								
Method: Redi Flo pump	clear	5.36	0.128	14.93	10.26	8.02	88	~~clr~~

PURGE DATA:

Date: 9/16/09									
Method: Redi Flo pump									
Monitor Reading (ppm): 0	Gallons	SEE LOW FLOW PURGE DATA SHEET, Page 2							Time
Well Casing Diameter & Material	1	5.95	0.159	17.62	2947	12.40	-26	gray	1353
Type: 2" Stainless Steel	5	5.89	0.147	16.33	Err 4	9.32	-16	light gray	1401
Total Well Depth (TD): 45	10	5.76	0.143	15.85	187	3.54	24	very lt. gray	1406
Static Water Level (WL): 9.89	15	5.66	0.138	15.50	127	7.28	41	" "	1412
One Casing Volume(gal/L):	20	5.52	0.133	15.32	42.3	8.16	60	clear	1416
Start Purge (hrs): 1356	26	5.44	0.130	15.19	25.0	8.04	69	clear	1422
End Purge (hrs): 1436	33	5.39	0.129	15.05	13.6	7.83	81	clear	1429
Total Purge Time (min): 40	39	5.36	0.128	14.93	10.26	8.02	88	clear	1435
Total Vol. Purged (gal/L): 40 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	no

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. No stains or odors

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. [ ]

Temp screen set 43-45' bgs
split samples w/ Suffolk County Dept Health
SCDH take VOC and Metals

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-TW-316-0712-20090917
Sample Location: Southern Area
Sampled By: LAS

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-17-09								
Time: 1025								
Method: Redi-flow pump	clear	5.20	0.071	17.33	22.3	5.74	75	—

PURGE DATA:

Date: 9-17-09									
Method: Redi-Flow pump									
Monitor Reading (ppm): 0.0	gallons	SEE LOW FLOW PURGE DATA SHEET, Page 2						color	Time
Well Casing Diameter & Material	1	5.12	0.174	17.20	306	16.61	171	brown	1005
Type: 2" steel	2	5.30	0.094	17.32	454	6.98	88	light brn	1009
Total Well Depth (TD): 12	5	5.33	0.075	17.33	425	5.99	71	clearish	1015
Static Water Level (WL): 8.34	8	5.28	0.072	17.34	25.8	5.87	75	clear	1020
One Casing Volume(gal/L):	10	5.20	0.071	17.33	22.3	5.74	75	clear	1024
Start Purge (hrs): 1005									
End Purge (hrs): 1025									
Total Purge Time (min): 20									
Total Vol. Purged (gal/L): 1.0									

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Temporary well installed from 7' to 12' BGS
- Pump set in well at ~~[illegible]~~ N/A 11.5' BGS
- Pump flow rate ~ 0.5 gpm
- No stains or odors observed
split sample w/ Suffolk County Health Dept

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
GROUNDWATER INVEST.

Sample ID No.: SA-TW-316-2025-20090917
Sample Location: Southern Area
Sampled By: JBB

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	~~Other~~ ~~NA~~ SA C
Date: 9-17-09								
Time: 1150								
Method: ~~Low Flow~~ JBB Redi Flow	clear	5.93	0.112	14.93	7.68	6.08	103	—

PURGE DATA:

Date: 9-17-09									
Method: Redi Flow Pump								C	
Monitor Reading (ppm): 0	Gallons	SEE LOW FLOW PURGE DATA SHEET, Page 2						color	Time
Well Casing Diameter & Material Type: 2" stainless steel	1	6.37	0.168	17.07	79.5	10.19	22	light brown	1110
	3	6.44	0.137	16.47	21.9	6.65	42	clear	1115
Total Well Depth (TD): 25	6	6.25	0.124	15.95	17.0	6.37	68	clear	1121
Static Water Level (WL): 8.34	10	6.08	0.116	15.69	8.34	6.23	97	clear	1129
One Casing Volume(gal/L):	13	6.02	0.114	15.43	8.34	6.18	103	clear	1135
Start Purge (hrs): 1108	15	6.00	0.113	15.16	9.09	6.08	108	clear	1139
End Purge (hrs): 1150	17	5.97	0.113	14.99	7.48	4.17	103	clear	1143
Total Purge Time (min): 42	20	5.93	0.112	14.93	7.68	6.08	103	clear	1149
Total Vol. Purged (gal/L): ~20									

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	no

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

Temporary well installed from 20'-25' bgs
Pump set in well at 24.5' bgs
Pump flow rate ~0.5 gpm
No stains or odors
split sample w/ Suffolk County Health Dept
SCHD took VOCs and metals

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
GROUNDWATER INVEST.

Sample ID No.: SA-TW316-3237-20090917
Sample Location: Southern Area
Sampled By: JBB

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Temporary Well Point
[ ] QA Sample Type:

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-17-09								
Time: 1424								
Method: Redi-Flow Pump	clear	5.59	0.116	14.56	21.8	6.09	68	—

PURGE DATA:

									Time
Date: 9-17-09									
Method: Redi-Flow Pump									
Monitor Reading (ppm): 0		SEE LOW FLOW PURGE DATA SHEET, Page 2						Color	
Well Casing Diameter & Material	1	6.32	0.164	16.38	Err4	8.07	-69	light brown opaque	1341
Type: 2" stainless steel	5	6.25	0.136	15.44	1328	6.70	-28	light brown	1345
Total Well Depth (TD): 37	12	5.84	0.121	15.02	271	6.35	27	clearish tan	1352
Static Water Level (WL): 6.3'	18	5.71	0.119	14.85	109.5	6.03	55	slight tan/clear	1358
One Casing Volume(gal/L):	24	5.65	0.117	14.73	535	6.17	60	clear	1404
Start Purge (hrs): 1340	30	5.65	0.117	14.62	24.1	6.17	65	clear	1410
End Purge (hrs): 1424	36	5.61	0.116	14.53	14.8	6.05	69	clear	1416
Total Purge Time (min): 44	42	5.59	0.116	14.56	21.8	6.09	68	clear	1422
Total Vol. Purged (gal/L): 42									

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	no

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. [ ]

(see above)
- Temp well installed from 32-37' bgs
- Pump set at 36.5' bgs
- Pump flow rate ~1 gpm
- No stains or odors

Split sample with Suffolk County Health Dept
2 VOCs x2 Metals

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Jack Baldwin

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-317-1015-20090918
Sample Location: Southern Area
Sampled By: VAS
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 ORP
Date: 9/18/09								
Time: 1032								
Method: Redi-Flow pump	clear	6.14	0.197	18.61	13.6	4.95	~~etc~~	98

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	Time
Date: 9-18-09									
Method: Redi-Flow pump	1 gallon	6.10	0.330	18.61	4852	9.55	brown	167	1012
Monitor Reading (ppm): 0.0	2 gal	6.13	0.237	18.57	336	8.05	light brown	133	1014
Well Casing Diameter & Material	5	6.13	0.204	18.78	73.1	7.29	clear slight tan	110	1020
Type: 2" steel	8	6.14	0.198	18.74	19.0	7.05	clear	105	1026
Total Well Depth (TD): 15	10	6.14	0.197	18.61	13.6	4.95	clear	98	1031
Static Water Level (WL): 10.5' bgs									
One Casing Volume(gal/L):									
Start Purge (hrs): 1011									
End Purge (hrs): 1032									
Total Purge Time (min): 21									
Total Vol. Purged (gal/L): ~10 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	Yes

OBSERVATIONS / NOTES:

- Temporary well point installed from 10' to 15' BGS
- Pump set in well at ~ ~~10'-15' bgs~~ 14.5' bgs
- Pump flow rate ~0.5 gpm

split sample w/ Suffolk County Health Dept (2 VOCs and 2 metals)

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-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-317-2025-20090918
Sample Location: Southern Area
Sampled By: JB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-18-09 JBB	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: ~~1033~~ 1133								
Method: Redi-Flow pump	clear	6.03	0.107	16.84	3.70	4.07	—	113

PURGE DATA:

Date: 9-18-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other ORP	
Method: Redi-Flow pump	1 gal	7.03	0.157	20.02	1092	8.96	light brown	75	1059
Monitor Reading (ppm): 0	2 gal	6.87	0.136	19.11	86.8	5.61	clear/slight tan	83	1101
Well Casing Diameter & Material	5 g	6.53	0.118	18.09	14.8	4.95	clear	106	1107
Type: 2" stainless steel	8	6.28	0.110	17.38	5.31	4.78	clear	112	1113
Total Well Depth (TD): 25	11	6.14	0.108	17.09	6.14	4.71	clear	116	1119
Static Water Level (WL): 10.1 ft	14	6.09	0.107	16.93	6.18	5.99	clear	115	1125
One Casing Volume(gal/L):	17	6.03	0.107	16.84	3.70	4.07	clear	113	1131
Start Purge (hrs): 1058 JBB									
End Purge (hrs): ~~1033~~ 1133									
Total Purge Time (min): 35									
Total Vol. Purged (gal/L): 17 gal									

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3x 40 mL vials	yes

OBSERVATIONS / NOTES:

Temporary well point installed from ~20-25' bgs
Pump set at ~24.5' bgs
Pump flow rate ~0.5 gpm
Split sample w/ SCHD (2 VOC and 2 metals)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Temporary well point
[] QA Sample Type:

Sample ID No.: SA-TW-317-39.5-44.5-20090921
Sample Location: Southern Area
Sampled By: VAS
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~~ ORP (%)	Other
Date: 9-21-09								
Time: 1052								
Method: Redi-Flow pump	Slight Tint Gray	5.10	0.112	15.10	37.7	10.41	173	—

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Date: 9-21-09								
Method: Redi-flow pump	1	5.25	0.190	17.11	860	11.38	145	Very Cloudy Gray
Monitor Reading (ppm): 0.0	3	5.73	0.122	15.61	342	11.45	136	Cloudy Gray
Well Casing Diameter & Material	7	5.50	0.117	15.40	137	11.07	139	Tinted Gray
Type: 2" steel	10	5.29	0.114	15.44	120	10.78	154	Tinted Gray
Total Well Depth (TD): 44.5'	14	5.23	0.113	15.36	66.5	10.52	162	Slight Tint Gray
Static Water Level (WL): 10.2'	18	5.16	0.113	15.28	54.1	10.44	164	Slight Tint Gray
One Casing Volume(gal/L):	22	5.12	0.112	15.20	38.6	10.47	169	Slight Tint Gray
Start Purge (hrs): 1022	27	5.11	0.113	15.15	36.2	10.45	171	Slight Tint Gray
End Purge (hrs): 1052	32	5.10	0.112	15.10	37.7	10.41	173	Slight Tint Gray
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 32								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- Temporary well installed from 39.5' to 44.5' BGS (screen interval)
- pump set in well at ~44.0'
- pump flow rate → ~1.0 gpm
- No stains or odors observed.
- Sample split with Suffolk County Health Department.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

APPENDIX B

SOIL BORING, GAMMA LOGS, MONITORING WELL CONSTRUCTION, MONITORING WELL DEVELOPMENT LOG SHEETS, AND SLUG TEST FORMS/PLOTS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: FC-MW-07I
DATE: 9-10-09
GEOLOGIST: Conti
DRILLER: GUECI

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**
	0												
					M DENSE	TAN BRN	SILTY F SAND	SM	MOIST		0		0
	5						SAME		MOIST	0	0		
									MOIST →				
	10						SAME		WET	0	0		0
	15						SAME				0		0
	20						SAME				0		0
	25						SAME				0		0

* When rock coring, enter rock brokeness.

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

Remarks: 4 1/4" ID HSA

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: FC-MW-07I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: FC-MW-07I
DATE: 9-10-09
GEOLOGIST: Conti
DRILLER: GUECI

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	TAN BRN	SILTY F/M SAND	SM SP	WET		0		0
	30						SAME						
	35						SAME			0	0		0
	40						SAME						
	45						SAME			0	0		0
	50						SAME						

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: FC-MW-07I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: FC-MW-07I
DATE: 9/10/09
GEOLOGIST: Conti
DRILLER: GUEC1

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												
S-1 e		4/4	1.5/2		M DENSE	BRN	SILTY F/M SAND	SM	WET	0	0		0
1130	52	6/9							MICACEOUS				
S-2	54					TAN							
e	55	10/11	1.6/2		M DENSE	BRN	SILTY F/M SAND	SM	WET	0	0		0
1145	56	12/13		56±					MICACEOUS				
S-3 e		2/2	1.5/2	57'±	SOFT/LOOSE	BRN	SANDY SILT-TR CLAY						
1300	58	4/7		57.5 GRAY	SOFT	BRN TO GRAY	CLAYEY SILT	ML	WET	0	0		0
				58			SILTY CLAY	CL					
				TD					GRAY IN SHOE				
							SET WELL 48-58						

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: FC-MW-07I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-130S
DATE: 9-10-09
GEOLOGIST: Conti
DRILLER: GUECI

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**
	0												
					M DENSE	TAN BRN	SILTY F SAND	SM	MOIST		0		
	5						SAME			0	0		0
				9									
	10						SAME			0	0		
				11'					WET ~ 11'				
	15						SAME			0	0		0
	19			19									
S-1 @	20	2/2	1.8/2		M DENSE	TAN	SILTY F/M SAND	SP	WET	0	0		0
0830	21	2/3			TO LOOSE	BRN		SM					
							HSA TO 19						
							WELL 9-19						

* When rock coring, enter rock brokeness.

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

Remarks: 4 1/4" HSA • TOC SAMPLE 1921

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-130S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-130 I
DATE: 9-9-09
GEOLOGIST: Conti
DRILLER: GUECI

	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**
		0												
1015						M DENSE	YELLOW BRN	SILTY F SAND	SM	MOIST	0	0		
1030		5						SAME			0	0		0
1040		10						SAME			0	0		
					11'±					WET ~ 11'				
		15						SAME			0			0
1050		20					TAN BRN	SAME			0			
		25						SAME			0			0

* When rock coring, enter rock brokeness.

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

Remarks: 4 1/4" ID HSA

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-130 I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-130 I
DATE: 9/9/09
GEOLOGIST: Conti
DRILLER: GUECI

	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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
1100		25				M DENSE	TAN BRN	SILTY F/M SAND	SM/SP		0	0		
		30						SAME			0	0		
1110														
		35						SAME			0	0		0
					36									
		40						SAME			0	0		
1115	S-1 e		7/4	1.8/2		M DENSE	TAN BRN	SILTY F SAND	SM	WET.	0			
1130		42	4/7											
										SET SCREEN 36-46				
	S-2 e	44												
		45	3/3	1.5/2	45	M DENSE	BRN	SANDY SILT	SM	WET → MOIST	0	0		0
1145		46	6/8		46 SILT	CLAYEY		TR CLAY TO CLAYEY SILT	ML	LAMINATED				
	S-3 e		4/2	1.6/2	47					FAIRLY "TIGHT" MATL				
		48	2/4		CLAY	SOFT	GRAY	CLAYEY SILT / SILTY CLAY	CL/ML	WET				
	S-4 e		2/2	2/2										
1325		50	4/4							• TOC 44-46	0			0

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-130 I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131 S
DATE: 9/2/09
GEOLOGIST: Conti
DRILLER: GUERCI

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**
	0												
					M DENSE	YELLOW BRN	SILTY SAND	SM	FOR DETAILS SEE GAMMA LOG.		0		
	5					TAN	SAME				0		0
				▽					WET ≈ 6'				
	10						SAME				0		
	15			TD 14			SAME				0		0
							SCREEN 4-14						
							SAND 3-14						
							PELLETS 2-3						

* When rock coring, enter rock brokeness.

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

Remarks: 4 1/4" ID HSA TO 14'

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-131 S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131 I
DATE: 9/2/09
GEOLOGIST: Conti
DRILLER: GUERCI

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**
	0												
					M DENSE	YELLOW BRN	SILTY SAND	SM	MOIST	0	0		
									See Gamma Log for SA-MW-131-D for details.				
	5						SAME						
									HSA TO 40' NO SAMPLE SPOONS UNTL 40'→42.		0		0
	10					TO	SAME				0		
						TAN							
	15						SAME				0		0
	20						SAME				0		
	25						SAME				0		0

* When rock coring, enter rock brokeness.

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

Remarks: 4¼" ID HSA TO 40' ±

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-131 I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131 I
DATE: 9/2/09
GEOLOGIST: Conti
DRILLER: GUERCI

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	TAN	SILTY F SAND - TR F. GRAVEL		WET		0		0
	30						SAME				0		0
	35						SAME				0		
	40			± 40.5		TAN			(CONTACT IN SPOON)				0
S-1 C 1010	42	1 1 2 2	1.8/2		LOOSE	GRAY	SILTY F/M SAND - TR CLAY	SM/SP	WET				
					SOFT	GRAY	SILTY CLAY	CL	WET	0	0		
							BOTH AUGER 40' SET WELL 30-40		CLAY CONTINUES TO ~45' PER GAMMA LOG.				
							• TOC SAMPLE						

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-131 I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131D
DATE: 8/31/09
GEOLOGIST: Conti
DRILLER: GUECI

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**
	0												
					M DENSE	YELLOW BRN	SILTY SAND	SM	MOIST	0	0		
									THIS BORING				
									WILL BE				
									DRILLED TO				
									~50'-NO				
	5								SPOON SAMPLING				
									-WILL BE		0		0
									GAMMA				
									LOGGED				
									WHEN				
									COMPLETE.				
									MOIST				
	10			~10' ▽		TO			BASED ON		0		0
						TAN	SILTY F SAND		CUTTINGS				
									WET ~ 10'				
									MICACEOUS				
	15						SAME				0		
	20						SAME				0		0
1345	25						SAME			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: HSA (4¼" ID) W/ BOTM PLUG.

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-131D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131D
DATE: 8/31/09
GEOLOGIST: Conti
DRILLER: GUECI

	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	TAN BRN	SILTY F SAND	SM	WET		O		O
										MICACEOUS				
		30						SAME	SM			O		
		35										O		O
								SAME						
1400 HRS		40			40±				?		O	O		
								SILTY/SANDY	SC/					
								CLAY	CL	BASE ON GAMMA LOG				
										ON 9/1/09				
										> 50 cpm				
		45			45±									
						M DENSE	GRAY	SAND/SILTY	SM	WET		O		O
								TR F						
								GRAVEL						
		50										O		

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

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

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131D
DATE: 8/31/09
GEOLOGIST: Conti
DRILLER: GUECI

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												
					M DENSE	TAN	SILTY F SAND	SM	WET		0		
									MICACEOUS				
	55						SAME				0		0
	60					TO	SAME			0	0		
						TAN							
					GRAY								
	65						SAME				0		0
	70						SAME				0		
	75										0		0

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-131D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-131D
DATE: 9-1-09
GEOLOGIST: Conti
DRILLER: GUECI

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												
9/1/09 ↓					M DENSE	GRAY	SAND		WET		O		O
	80										O		
				TD 80'									
									GAMMA LOG				
									ON 9/1/09				
							SCREEN 60-70						
						#2	SAND 57-70						
						00	" 55-57						
							PELLETS 53-55						

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-131D

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-132S
DATE: 9-8-09
GEOLOGIST: Conti
DRILLER: GUECI

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
	0					TAN							
					M DENSE	BRN	SILTY SAND	SM/SP	MOIST ↓		0		0
									WET ~ 4'				
				4' ▽									
	5						SAME				0		
	10						SAME				0		0
	14			14'		TAN							
S-1 e	15	3 3	1.8/2	•	LOOSE	BRN	SILTY F/M SAND	SM	WET	.2	0		0
1340	16	2 2						SP	MICACEOUS •TOC SAMPLE	.2	0		
							BOTM HSA = 14'						
							SCREEN 4-14						
							TOOK SPOON 14-16						
							FOR TOC/LITHOLOGY						

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-132S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW132I
DATE: 9/3/09
GEOLOGIST: Conti
DRILLER: GUEC 1

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**
	0												
					LOOSE	BRN	SILTY F-SAND	SM		0	0		0
							TR F GRAVEL						
									WET ≈ 4'±				
	5						SAME				0		
	10						SAME				0		0
	15						SAME			0	0		
	20						SAME				0		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: HSA TO 80' - THEN GAMMA LOG. DECIDE TO GROUT ENTIRE BORING AND INSTALL 40' WELL IN NEW HOLE

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-132I

MOVED ~ 6' EAST TO DRILL 40' WELL - USE THESE LOGS FOR INFO.

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-132I
DATE: 9/3/09
GEOLOGIST: Conti
DRILLER: GUECI

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	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
	25				M DENSE	TAN	SILTY F SAND -	SM	WET		O		O
				27			TR CLAY						
	30						SAME				O		
	35						POSSIBLE MORE				O		O
							CLAY (GAMMA)						
				36.0					CLAY AT 36'±				
	37		•						BASED ON DRILLING, AND ON AUGERS				
S-1 @		4/4	2/2	37	SOFT	GRAY	SILTY CLAY - CLAYEY	ML/	WET	O			
1000	39	6/8					SILT TR SAND	CL		O			
	40			±40							O		
					SOFT	GRAY	CLAY		SEE GAMMA LOG				
									TO ±50'?				
	45						SAME				O		O
	50						SAME				O		O

* 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: • TOC Sample. Did not expect to hit clay this shallow - sent sample for TOC 36'37 some sand in sample @ 36'±

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-132I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-132I
DATE: 9/3/09
GEOLOGIST: Conti
DRILLER: GUECI

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												
					M DENSE	GRAY	SAND - SOME		SEE GAMMA		0		0
							CLAY STRINGERS		LOG				
	55						SAME				0		0
	60						SAME				0		0
	65						SAME				0		0
							MORE		GAMMA LOG				
							CLAY ?						
	70										0		0
					M DENSE	GRAY	SILTY SAND -		CUTTINGS/				
							TR F GRAVEL		GAMMA LOG				
							TR CLAY						
	75										0		0

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ✓ No X Well I.D. #: SA-MW-132I

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NWIRP CALVERTON
PROJECT NUMBER: 112GN1610
DRILLING COMPANY: DELTA
DRILLING RIG: HOLLOW STEM AUGER

BORING No.: SA-MW-132 I
DATE: 9/3/09
GEOLOGIST: Conti
DRILLER: GUECI

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 GRAY	SILTY SAND						0
	80			TD									0
				80'			NOTE:						
							HSA TO 80'						
							THEN GAMMA						
							LOGGED, AFTER LOOKING						
							AT LOG - DECIDE TO SET						
							I-WELL @ ±40' - WILL						
							BACKFILL THIS BORING						
							COMPLETELY AND DRILL						
							SEPARATE HSA NEARBY TO						
							±40.						

* When rock coring, enter rock brokeness.

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

Remarks:

Drilling Area Background (ppm): 0

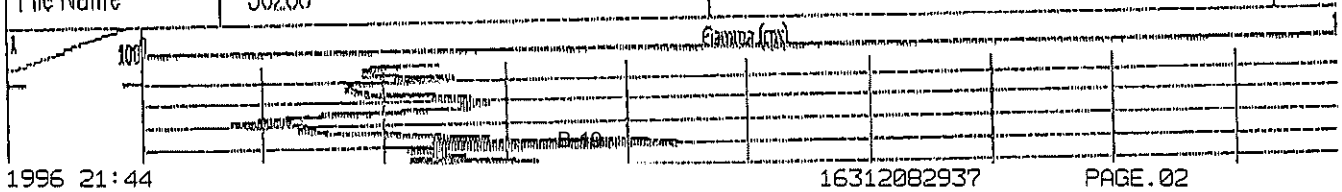
Converted to Well: Yes ✓ No (X) Well I.D. #: SA-MW-132I

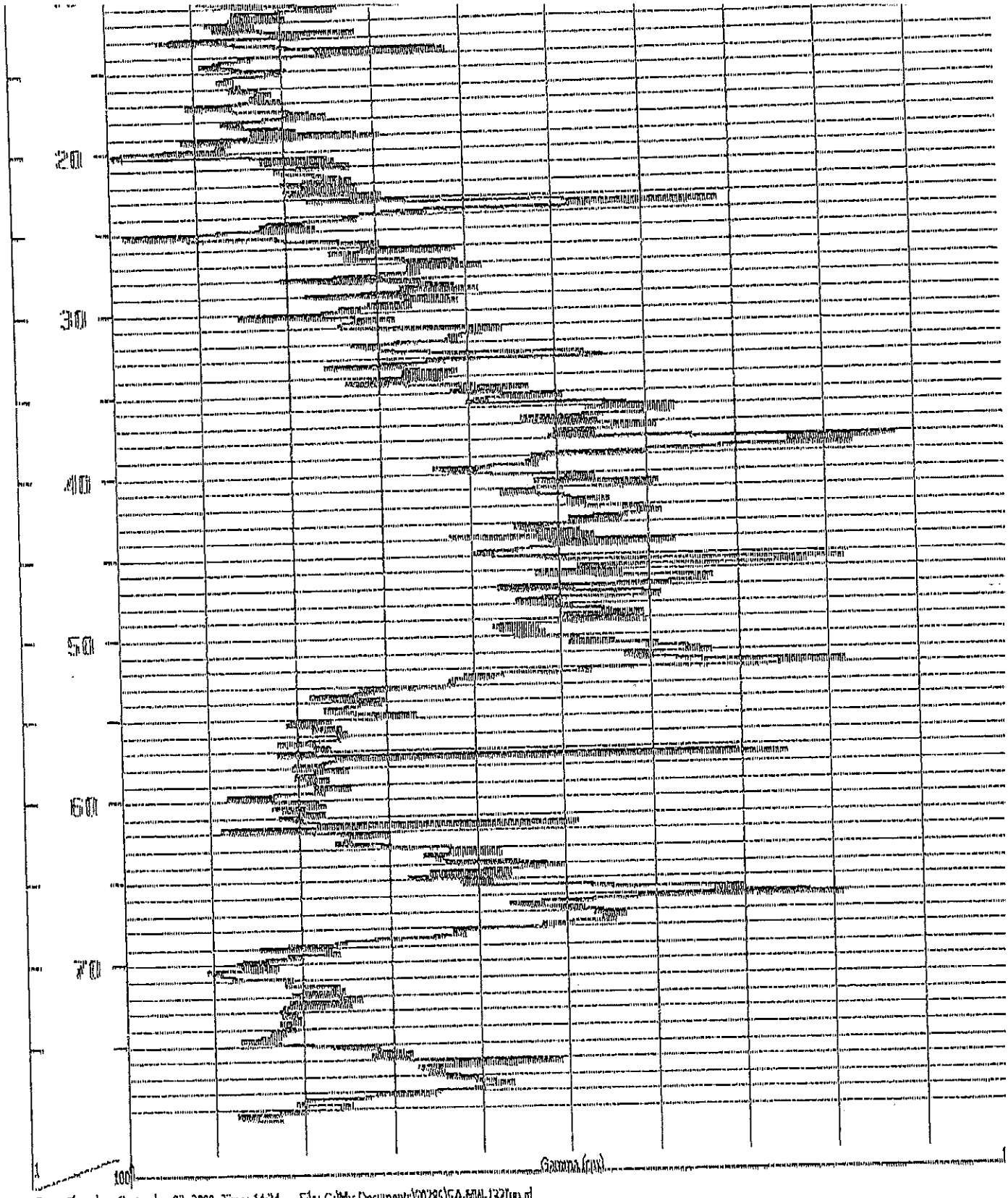
PG 1

FAX 757 461 4148 NORFOLK

Date: Thursday, September 03, 2009 Time: 14:34 File: C:\My Documents\50286\SA-MW-132up.nl

	COMPANY:	DELTA WELL & PUMP CO., INC.		Casing
	Location:	NWIRP SPORTSMANS CLUB		
Well	SA-MW-132I		Depth Driller	
			Depth Logger	
Date	09-03-09	BH Fluid	Logged by: Chris Okon	
File Name	50286		Witness: STAN	





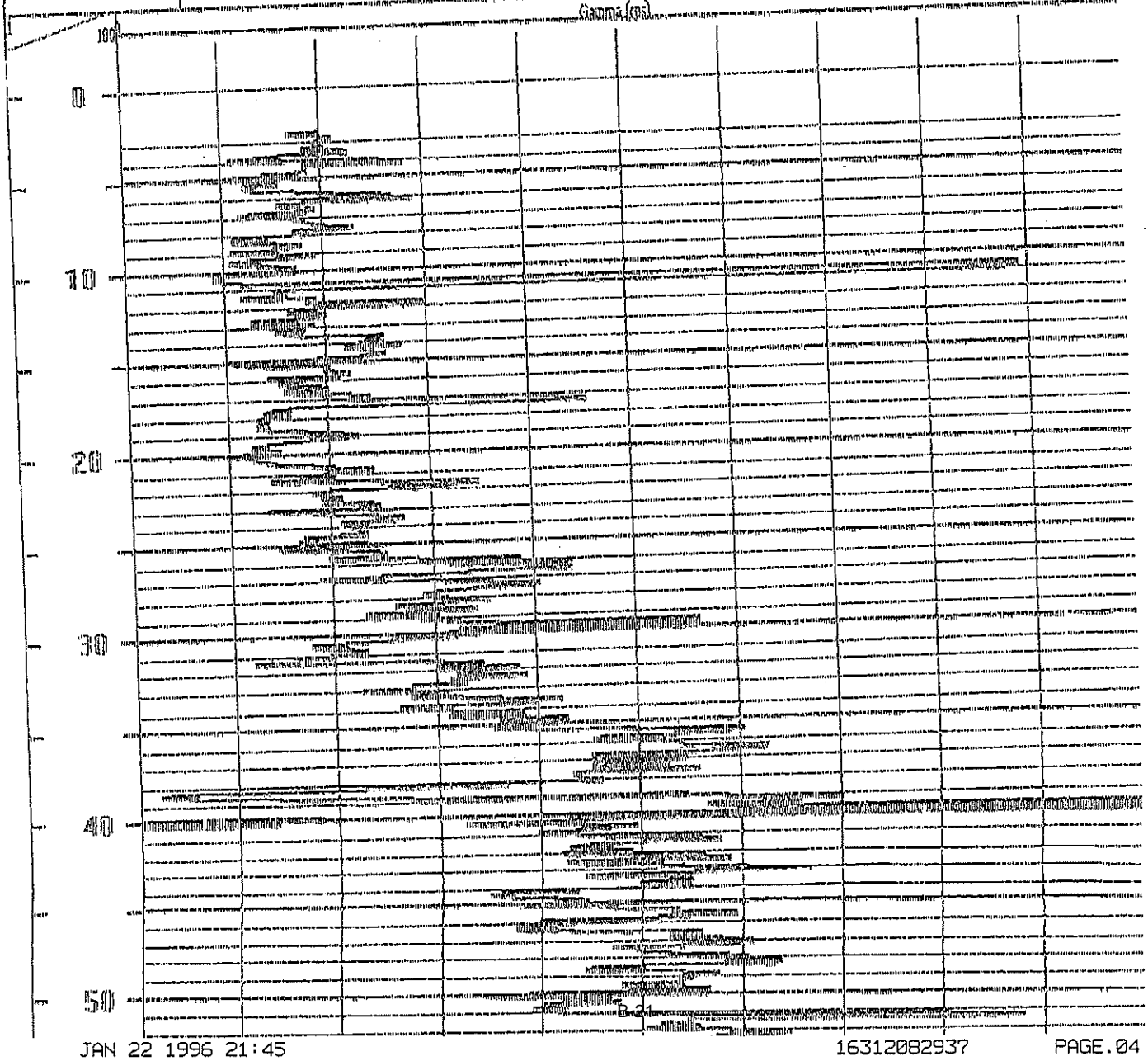
Date: Thursday, September 03, 2009 Time: 14:24 File: C:\My Documents\00285\GA-HM-132Up.rl

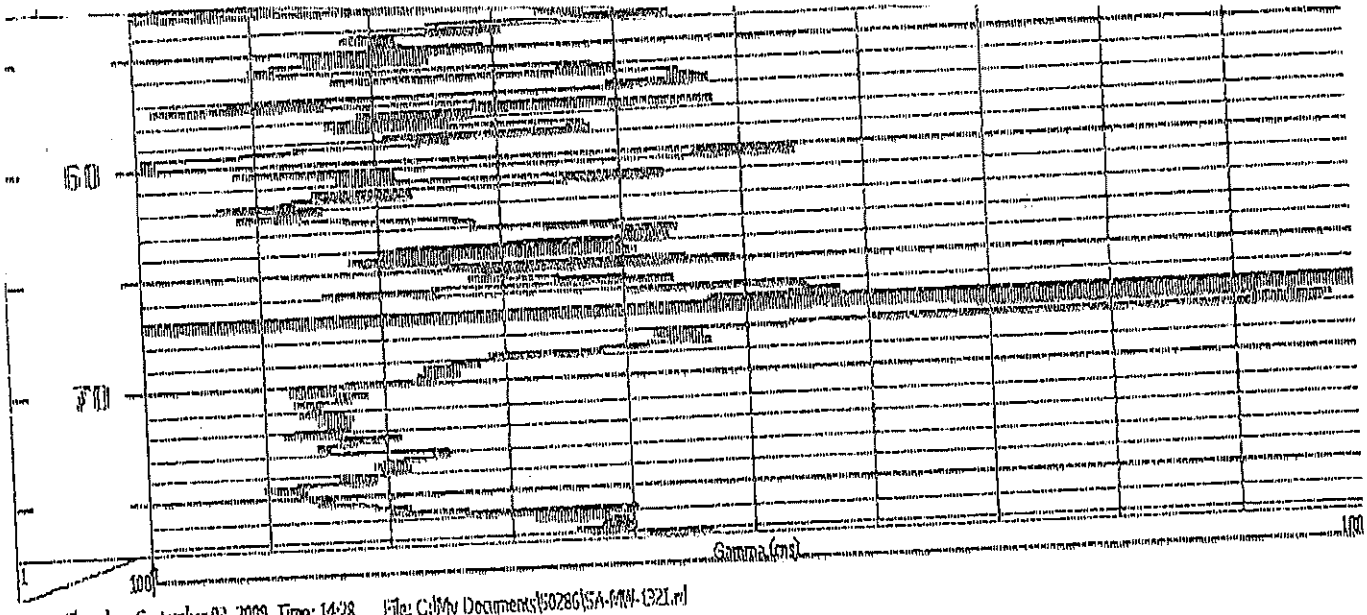
P2

P 3

Date: Thursday, September 03, 2009 Time: 14:20 File: C:\My Documents\50286\SA-MW-1321.rl

COMPANY:	DELTA WELL & PUMP CO., INC.		CASING
Location:	NWIRP SPORTSMANS CLUB		
Well	SA-MW-1321	Depth Driller / Depth Logger	
Date	09-03-09	BH Fluid	Logged by: Chris Okon
File Name	50286		Witness: STAN





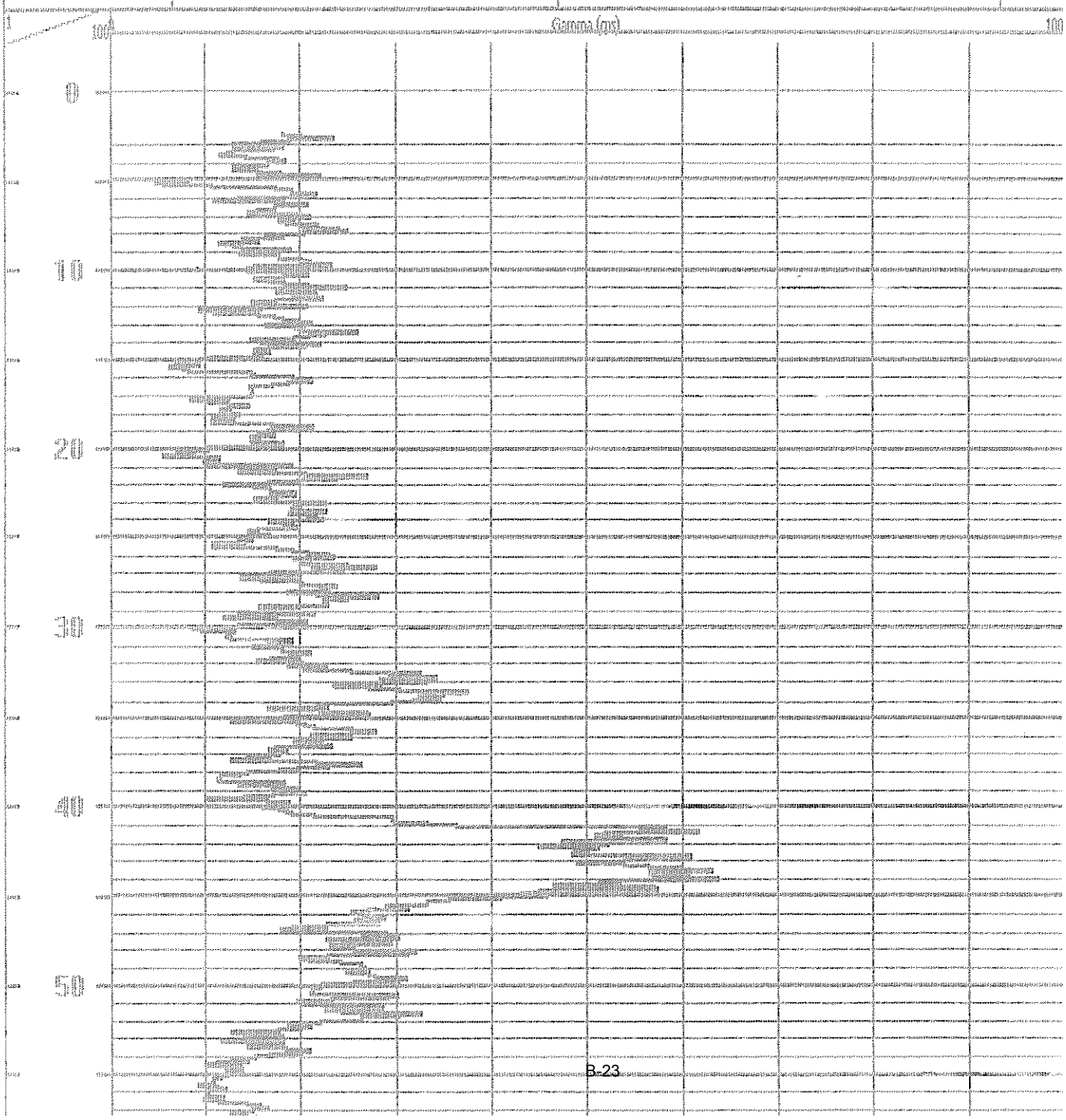
Date: Thursday, September 03, 2009 Time: 14:28 File: C:\My Documents\50286\SA-MN-1921.rl

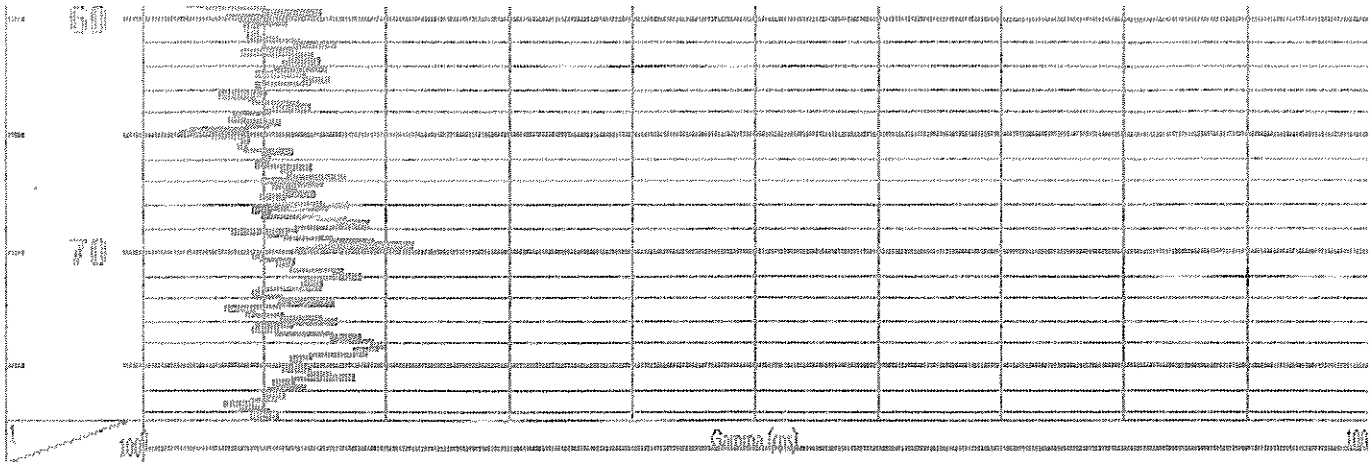
P 4

Date: Tuesday, September 01, 2009 Time: 09:23 File: C:\My Documents\30289\SA-MW-131D.cal

	COMPANY: DELTA WELL & PUMP CO., INC.	Casing
	Location: PECONIC SPORTSMAN CLUB	

Well	SA-MW-131D			Depth Driller / Depth Logger	
Date	09-01-09	BH Fluid		Logged by:	Chris Okon
File Name	NWIRP CALVERTON			Witness:	STAN





Date: Tuesday, September 01, 2009 Time: 09:23 File: C:\My Documents\50286\SA-MW-13ID.rd

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: NWIRP Calverton
Well: FC-MW 07S
Date Installed:
Date Developed: 9/11/09
Dev. Method:
Pump Type: GrundFos

Depth to Bottom (ft.):
Static Water Level Before (ft.): 10.32
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2"

Project Name:
Project Number: CTO 160
Site Geologist: J. Birkett
Drilling Co.: Delta

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.)	Shallow WL
0915	3.5 gal/min		10.32						10.38
0930		15	10.75	16.37	7.85	0.194	Err4		10.40
0935		35	10.75	16.65	8.21	0.147	4501		10.40
0940		50	10.75	16.42	8.39	0.221	Err4		
0947		65	10.75	16.54	8.53	0.192	Err4		
0953		79	10.69	16.38	7.80	0.133	246		10.40
0959		98	10.68	16.44	6.29	0.131	112		10.40
1004		115	10.68	16.47	5.98	0.129	41.3		
1010		130	10.68	16.36	5.74	0.128	23.8		10.40
1015		145	10.68	16.39	5.63	0.128	13.9		
1048				17.17	6.55	0.197	64.7		
1053		170	10.68	16.77	6.99	0.130	8.13		10.40
1059		187	10.68	16.67	5.70	0.128	4.66		
1105		205	10.68	16.53	5.56	0.127	4.62		10.40
1111		222	10.68	16.57	5.55	0.126	2.99		
1118		260	10.68	16.61	5.54	0.128	3.59		—

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: NWIRP Calver
Well: 3A-MW-130S
Date Installed:
Date Developed: 9/11/09
Dev. Method:
Pump Type: Grundfos

Depth to Bottom (ft.):
Static Water Level Before (ft.): 11.96
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2

Project Name:
Project Number: CTO 160
Site Geologist: J. Birkett
Drilling Co.: Delta (J. Stephens)

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.) Adjacent Intermediate Well (130I)
0730			11.96					14.96
0740	3.5 gal/min	20	12.12	17.00	5.13	0.097	1878	
0746		33	12.12	16.83	5.78	0.076	1293	15.19
0751		48	12.12	16.60	5.79	0.075	27.2	
0756		60	12.12	16.66	5.87	0.075	93.4	15.19
0803		82	12.12	16.72	5.92	0.074	73.1	
0809		100	12.12	16.54	5.73	0.073	11.5	
0815		120	12.12	16.49	5.66	0.071	4.14	15.19
0822		140	12.12	16.48	5.63	0.070	2.63	
	Shut off development @ 140 gal							
	Development complete							

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: NWIRP Calverton Southern Area
Well: SA-MW-130 I
Date Installed:
Date Developed: 9/10/09
Dev. Method:
Pump Type: Grundfos

Depth to Bottom (ft.): 50.09
Static Water Level Before (ft.): 15.17
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2"

Project Name: NWIRP Calverton Groundwater Sampling
Project Number: CTO 160
Site Geologist: J. Birkelt
Drilling Co.: Delta
Driller : John Stephens
PID Reading : 0 ppm

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.)	Adjacent Shallow Well WL
1306	Initial	Reading	15.17						11.93
1315		5	15.53	16.78	5.73	0.149	Err 4	Flowrate: 4gpm	11.95
1320		30	15.52	15.81	5.80	0.135	1672		
1323		48	15.52	16.13	5.65	0.135	1520		
1328		65	15.48	15.56	5.51	0.125	1343		11.95
1334	Filled	Tank							
1405		70	15.49	16.98	5.58	0.109	645		11.95
1410		90	15.49	16.02	5.58	0.124	80.9		
1416		110	15.49	15.98	5.47	0.122	15.9		
1422		130	15.49	15.33	5.41	0.122	12.1		11.97
1427		150	15.49	15.22	5.42	0.121	3.97		
1433		170	15.49	15.34	5.45	0.120	3.81		11.97
1438		190	15.49	15.26	5.40	0.120	3.62		11.98
1443		210	15.49	15.32	5.40	0.120	3.60		
1449		230	15.49	15.10	5.39	0.120	3.32		11.98

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: Calverton Southern Area
Well: SA-MW131S
Date Installed:
Date Developed: 9/8/09
Dev. Method:
Pump Type: Grundfos Rediflo

Depth to Bottom (ft.):
Static Water Level Before (ft.): 8.86
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2

Project Name: NWIRP Calv
Project Number: CTO-160
Site Geologist: J. Birkett
Drilling Co.: Delta
PID Reading 0

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.)
1316		—	8.86					brown
1323		12	9.05	18.31	5.43	0.242	191.0	
1328		25	9.06	18.46	5.38	0.219	151.0	4 gal/min
1335		40	9.06	18.30	5.34	0.230	292	
1340		58	9.07	18.19	5.34	0.222	92.5	
1343		70	9.07	18.07	5.34	0.236	38.0	150 gal tank filled
1417			9.05	19.45	5.37	0.231	53.0	
1422		100	9.07	19.02	5.37	0.277	38.7	
1429		~~130~~ 120	9.08	18.38	5.34	0.286	24.2	
1434		140	9.08	18.36	5.34	0.296	18.8	
1439		160	9.08	18.23	5.34	0.308	19.0	
1445		175	9.07	18.33	5.34	0.319	19.9	
1450		192	9.07	18.19	5.31	0.328	18.9	
1455		205	9.08	18.03	5.29	0.333	19.1	
1500		220	9.08	17.98	5.31	0.328	18.2	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: SA-MW-131 I
Site: Calverton Southern Area
Date Installed:
Date Developed: 9/8/09
Dev. Method:
Pump Type: Grundfos Rediflo.

Depth to Bottom (ft.):
Static Water Level Before (ft.): 8.51
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2

Responsible Personnel: J. Birkett J. Stephens
Drilling Co.: Delta
Project Name: NWIRP Calverton
Project Number: CTO-160
PID Reading 0 ppm

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.)
1105			8.51					
1119		30	8.80	17.45	5.83	0.235	425	light brown
1124		45	8.84	15.80 ~~17.84~~ JSB	5.50	0.236	52.6	
1130		60	8.76	15.40	5.48	0.242	299	
1137		78	8.76	15.24	5.45	0.237	68.3	
1143		98	8.76	15.10	5.48	0.241	11.2	
1150		110	8.76	15.51	5.48	0.244	29.1	
1157		130	8.76	15.20	5.49	0.247	9.01	
1202		150	8.76	14.87	5.49	0.247	9.77	
1245		—	8.77	17.52	5.56	0.219	6.57	
1251		15	8.77	16.08	5.57	0.233	4.64	
1256		35	8.77	15.27	5.56	0.239	1.67	
1301		57	8.77	15.11	5.60	0.228	4.58	
1306		80	8.77	15.02	5.58	0.226	3.56	230 total gallons purged

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: NWIRP Calverton Southern Area
Well: SA-MW-131D
Date Installed:
Date Developed: 9/8/09
Dev. Method: Grundfos hand surging
Pump Type: Grundfos Redi-Flo

Depth to Bottom (ft.): 71.95
Static Water Level Before (ft.): 7.93
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2"

Project Name: NWIRP Calverton Groundwater Sampling
Project Number: CTO-160
Site Geologist: J. Birkett
Drilling Co.: Delta
Driller: John Stephens
PID Reading: 0 ppm

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.)
0813	Initial Reading		7.93					
0830			8.47	16.49	5.78	0.270	Err 4	
0835			8.55	15.30	6.12	0.133	2754	
0842		70	8.62	14.80	6.17	0.133	Err 4	
0847		110	8.71	14.54	6.20	0.136	1438	
0853		135	8.75	14.74	6.21	0.140	1372	stop surging
0859		150	—	14.40	6.18	0.139	279	
	Filled Tank							
0940			8.10	15.31	6.14	0.137	642	
0946		180	8.42	14.82	6.13	0.141	145	
0951		200	8.47	14.64	6.14	0.139	29.2	
0956		218	8.52	14.63	6.13	0.139	49.2	
1001		235	8.57	14.63	6.13	0.139	18.2	
1007		250	8.59	14.71	6.12	0.140	12.7	
1012		268	8.62	14.70	6.13	0.139	13.9	
1017		286	8.64	14.72	6.13	0.139	10.06	
1022		300	8.65	14.65	6.12	0.140	10.83	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: NWIRP Calv.
Well: SA-MW-132 S
Date Installed:
Date Developed: 9/10/09
Dev. Method:
Pump Type: Grundfos

Depth to Bottom (ft.):
Static Water Level Before (ft.): 6.72
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 2"

Project Name: NWIRP Calverton
Project Number: CTO-160
Site Geologist: J. Birkett
Drilling Co.: Delta (John Stephens
PID Reading 0PPM

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.)	Shallow Well
1047	initial reading		6.72						WL 6.32
1050	4 gal/min	5	7.05	17.84	5.52	0.065	304		
1055		28	7.07	17.92	5.20	0.063	1789		6.35
1100		48	7.01	17.67	5.16	0.061	211		6.37
1105		64	7.02	17.53	5.14	0.061	96.7		6.37
1110		82	7.01	17.47	5.12	0.060	93.5		
1115		110	7.01	17.43	5.08	0.059	52.6		
1122		130	7.02	17.51	5.08	0.058	67.2		6.37
1127		145	7.02	17.52	5.05	0.057	24.3		
	1st 150 gal tank fill		~~7~~ 6.72				~~45.6~~		6.32
1217			7.02	18.62	5.07	0.057	45.6		
1223		30	7.02	17.80	5.00	0.056	13.2		6.37
1228		43	7.02	17.66	4.92	0.055	14.0		
1233		62	7.02	17.63	5.00	0.054	8.61		6.37
1238		78	7.02	17.49	4.92	0.054	9.67		
1243		96	7.02	17.45	4.95	0.054	10.87		
shut	off pump	246 total	~~7.02~~						

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Site: NWIRP Calv PRSC
Well: SA-MW 132I
Date Installed:
Date Developed: 9/10/09
Dev. Method:
Pump Type: Grundfos

Depth to Bottom (ft.): 40.14
Static Water Level Before (ft.): 6.32
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity:
Casing ID (in.): 2"

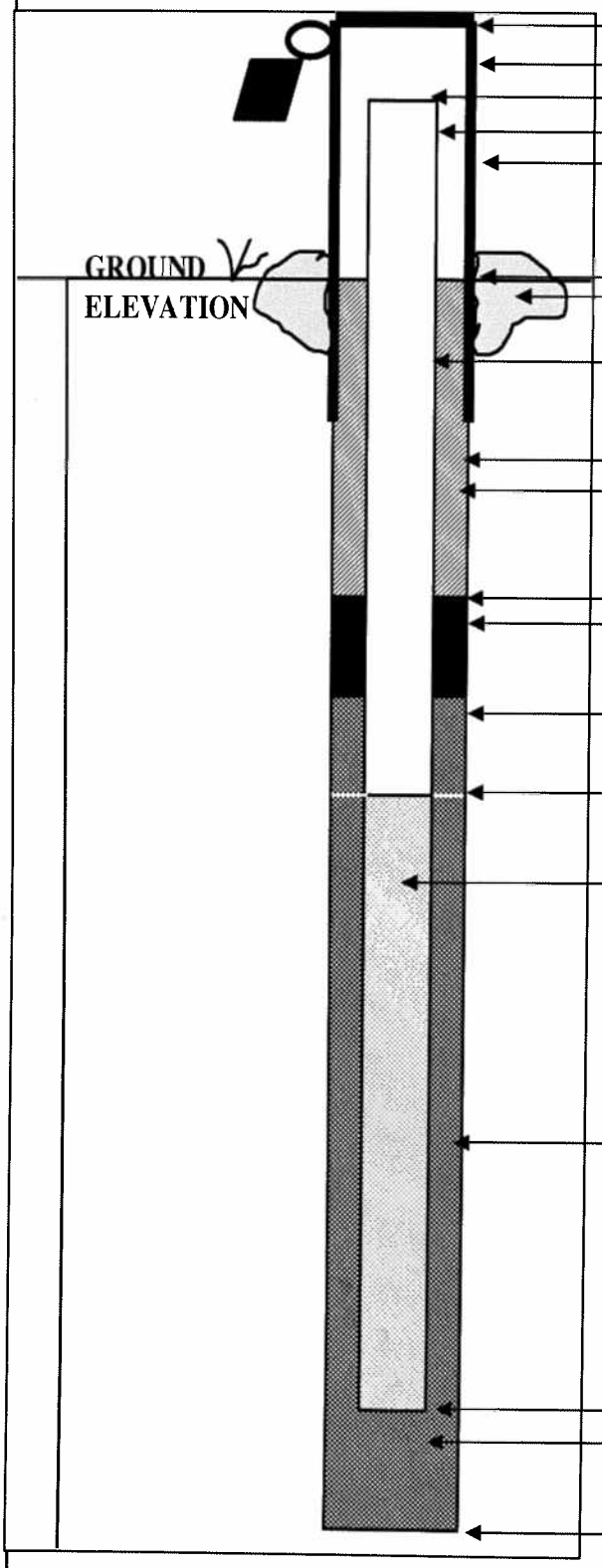
Project Name: NWIRP Calv.
Project Number: CTO-160
Site Geologist: J. Birkeff
Drilling Co.: Delta John Stephens

Time	Estimated Sediment Thickness (Ft.)	Cumulative Approx. Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU) JBB	Remarks (odor, color, etc.)	Shallow Well WL (Ft)
0755			6.32				~~14~~	intial reading	
0804	Rate=4gal/min	—	6.76	15.86	5.25	0.192	1924		6.72
0810		38	6.77	14.61	5.67	0.133	240		
0815		52	6.77	14.47	5.70	0.121	Err4		6.74
0820		68	6.71	14.14	5.64	0.121	3157		6.72
0825		83	6.70	13.99	5.62	0.117	1057		6.74
0830		105	6.70	14.13	5.62	0.116	350		6.74
0835		120	6.70	13.96	5.59	0.113	198		
0840		138	6.70	13.87	5.55	0.111	65.7		6.75
0845	Tank Full	150	6.70	13.82	5.57	0.111	44.7		
0925	Restart pump		6.32	14.63	5.63	0.115	65.0		6.74
0930		30	6.68	14.32	5.63	0.113	31.1		6.75
0935		50	6.69	14.17	5.62	0.111	15.5		6.74
0940		68	6.69	14.02	5.60	0.110	11.6		
0945		86	6.69	14.14	5.65	0.110	11.7		6.75
0950		105	6.69	14.06	5.64	0.111	7.73		
0955		120	6.69	13.94	5.60	0.109	7.40		6.75
1000		137	6.69	14.02	5.61	0.109	6.88		
1005		150	6.69	14.00	5.61	0.109	6.77		
		300 total							

BORING NO.: FC-MW-07I

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	FC-MW-07I
PROJECT No.:	112GN1610	DRILLER:	GUECI	DATE COMPLETED:	9/10/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING: STEEL

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONC PAD

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8"

TYPE OF SEAL: CEMENT GROUT

ELEVATION / DEPTH OF SEAL: /40

TYPE OF SEAL: 1/4" BENTONITE PELLETS

#00 SAND 43

ELEVATION / DEPTH TOP OF FILTER PACK: /45

ELEVATION / DEPTH TOP OF SCREEN: /48

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10 SL x 10'

I.D. OF SCREEN: 2"Φ

TYPE OF FILTER PACK: #1 FILPRO SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: /58

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /58

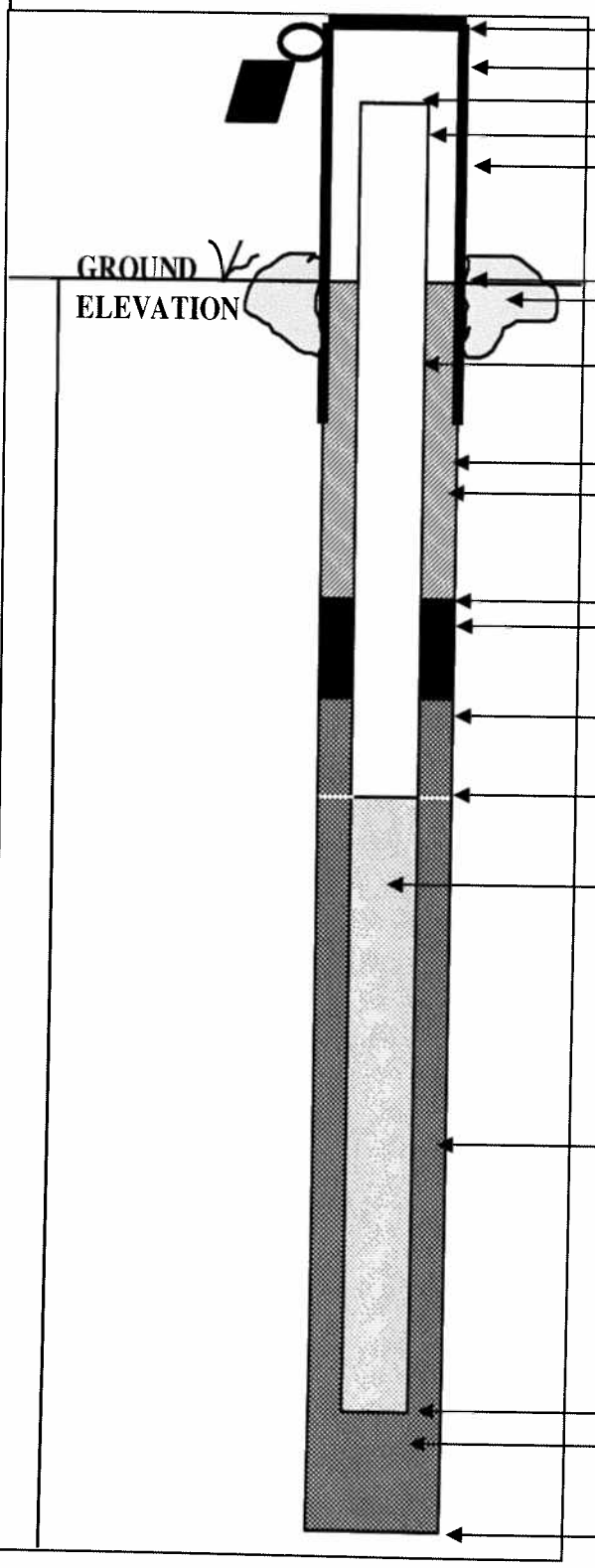
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: /58

BORING NO.: SA-MW-130S

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-130S
PROJECT No.:	112GN1610	DRILLER:	GUECI	DATE COMPLETED:	9/10/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING:

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONC PAD.

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8"

TYPE OF SEAL: GROUT / CEMENT

ELEVATION / DEPTH OF SEAL: / 3

TYPE OF SEAL: 1/4 BENTONITE PELLETS

00 SAND 6

ELEVATION / DEPTH TOP OF FILTER PACK: / 7

ELEVATION / DEPTH TOP OF SCREEN: / 9

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10SL X 10'

I.D. OF SCREEN: 2"Φ

TYPE OF FILTER PACK: #1 FILPRO SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: / 19

ELEVATION / DEPTH BOTTOM OF FILTER PACK: / 19

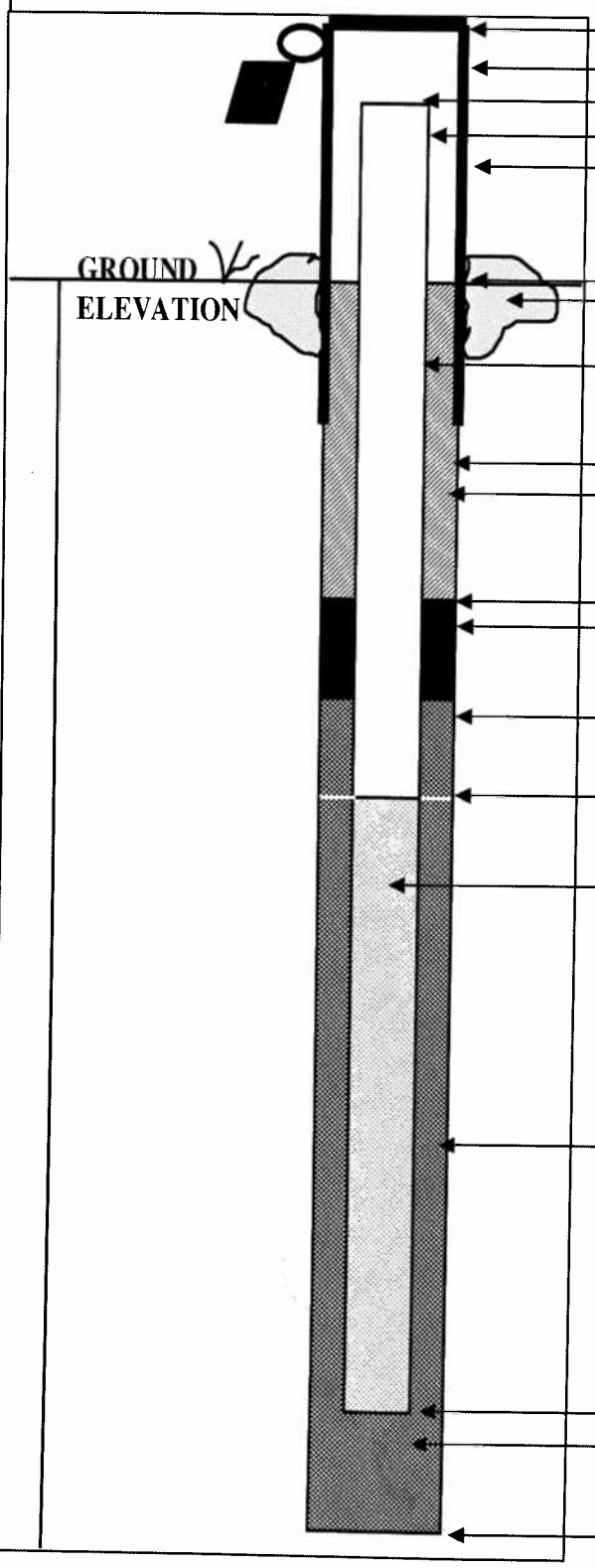
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: / 19

BORING NO.: SA-MW-130 I

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-130 I
PROJECT No.:	112GN1610	DRILLER:	GUECI	DATE COMPLETED:	9/9/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING:

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONCRETE PAD

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8" Φ

TYPE OF SEAL: CEMENT GROUT

ELEVATION / DEPTH OF SEAL: / 28

TYPE OF SEAL: 1/4" BENTONITE PELLETS

#00 SAND 32

ELEVATION / DEPTH TOP OF FILTER PACK: / 34

ELEVATION / DEPTH TOP OF SCREEN: / 36

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10 SL x 10'

I.D. OF SCREEN: 2" Φ

TYPE OF FILTER PACK: #1 FILPRO

QUARTZ SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: / 46

ELEVATION / DEPTH BOTTOM OF FILTER PACK: / 46

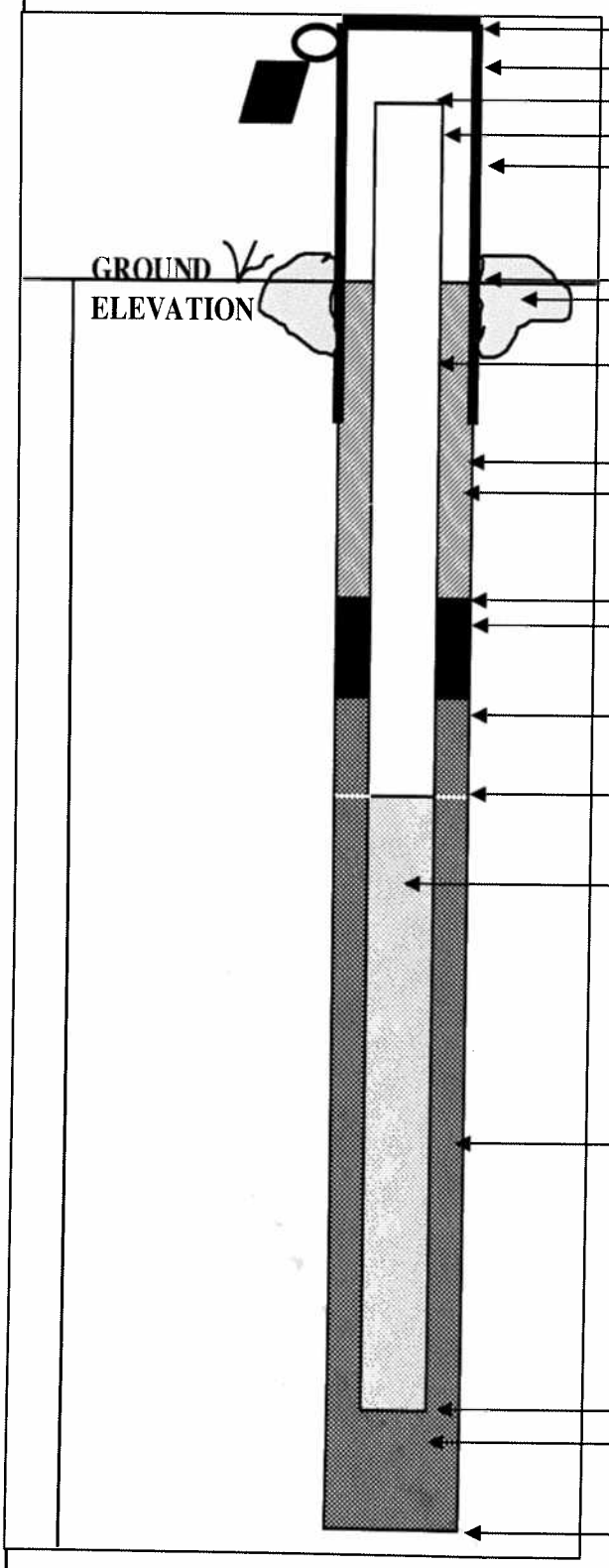
TYPE OF BACKFILL BELOW WELL: CAVED

ELEVATION / DEPTH OF BOREHOLE: / 48

BORING NO.: SA-MW-131S

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-131S
PROJECT No.:	112GN1610	DRILLER:	GUERCI	DATE COMPLETED:	9/2/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING: STEEL

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONCRETE PAD (SONOTUBE) 18" Φ

RISER PIPE I.D.: 2" Φ

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8"

TYPE OF SEAL: CONCRETE (PART OF PAD)

ELEVATION / DEPTH OF SEAL: / 2

TYPE OF SEAL: 1/4" BENONITE PELLETS

ELEVATION / DEPTH TOP OF FILTER PACK: / 3

ELEVATION / DEPTH TOP OF SCREEN: / 4

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 20 SL X 10'

I.D. OF SCREEN: 2"

TYPE OF FILTER PACK: WG #2 QUARTZ SAND (FILPRO)

ELEVATION / DEPTH BOTTOM OF SCREEN: / 14

ELEVATION / DEPTH BOTTOM OF FILTER PACK: / 14

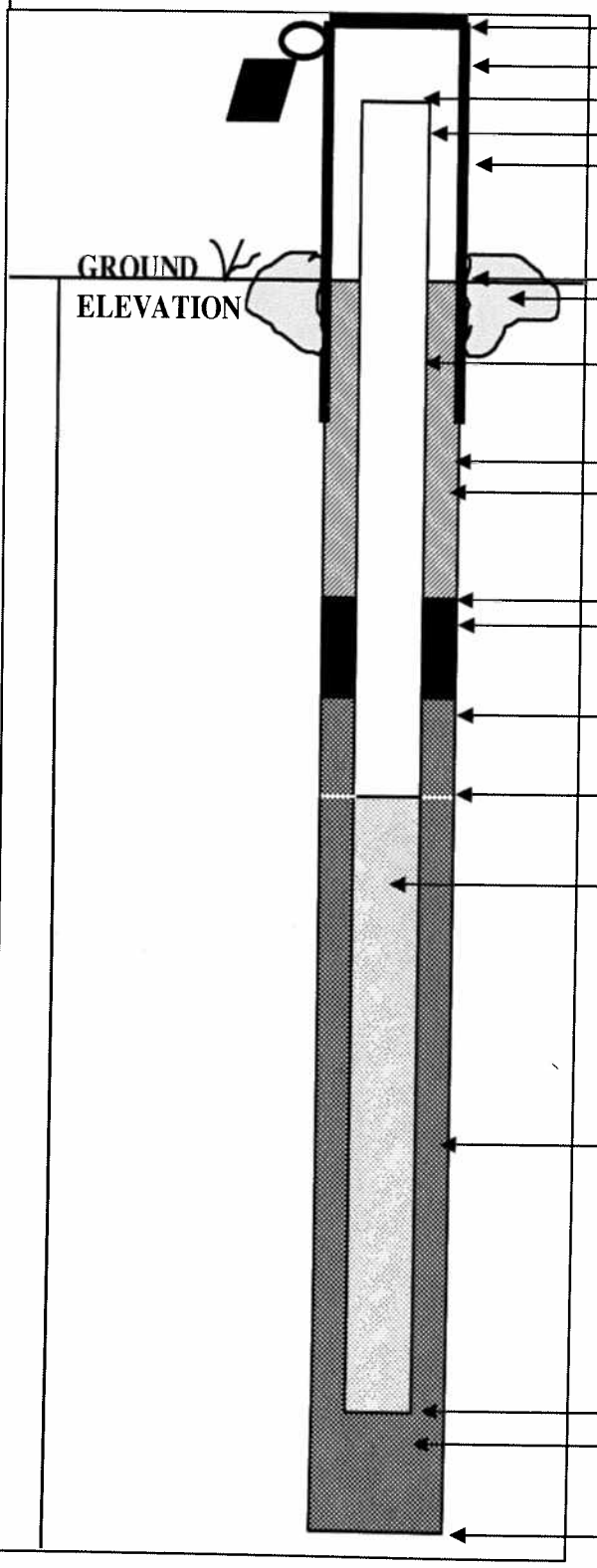
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: / 14

BORING NO.: SA-MW-131 I

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-131I
PROJECT No.:	112GN1610	DRILLER:	GUERCI	DATE COMPLETED:	9/2/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING: STEEL

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONCRETE PAD

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8"

TYPE OF SEAL: CEMENT/BENTONITE GROUT

ELEVATION / DEPTH OF SEAL: /21

TYPE OF SEAL: 1/4" BENTONITE PELLETS #00 SAND 24

ELEVATION / DEPTH TOP OF FILTER PACK: /27

ELEVATION / DEPTH TOP OF SCREEN: /30

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 20 SL x10'

I.D. OF SCREEN: 2"

TYPE OF FILTER PACK: #2 QUARTZ SAND FILPRO

ELEVATION / DEPTH BOTTOM OF SCREEN: /40

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /40.5

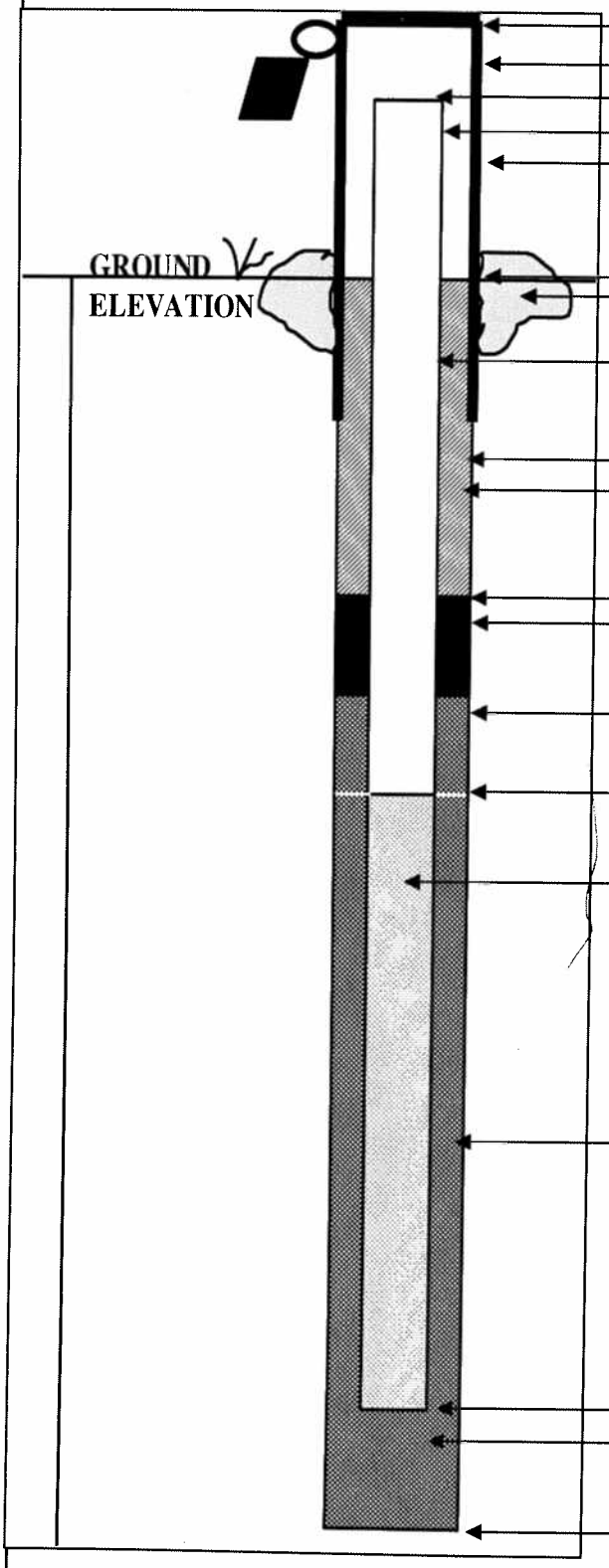
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: /40.5

BORING NO.: SA-MW-131D

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-131D
PROJECT No.:	112GN1610	DRILLER:	GUECI	DATE COMPLETED:	9/1/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING: STEEL

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONCRETE PAD

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: ~8"Φ

TYPE OF SEAL: CEMENT / BENTONITE GROUT (9 BAGS)

ELEVATION / DEPTH OF SEAL: ¼"Φ — 152

TYPE OF SEAL: BENTONITE PELLETS

FINE WG 00 SAND — 55

ELEVATION / DEPTH TOP OF FILTER PACK: 157

ELEVATION / DEPTH TOP OF SCREEN: 160'

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 20 SL x 10'

I.D. OF SCREEN: 2"Φ

TYPE OF FILTER PACK: # 2 SAND W.G # 2 FILPRO QUARTZ

ELEVATION / DEPTH BOTTOM OF SCREEN: 170'

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 170'

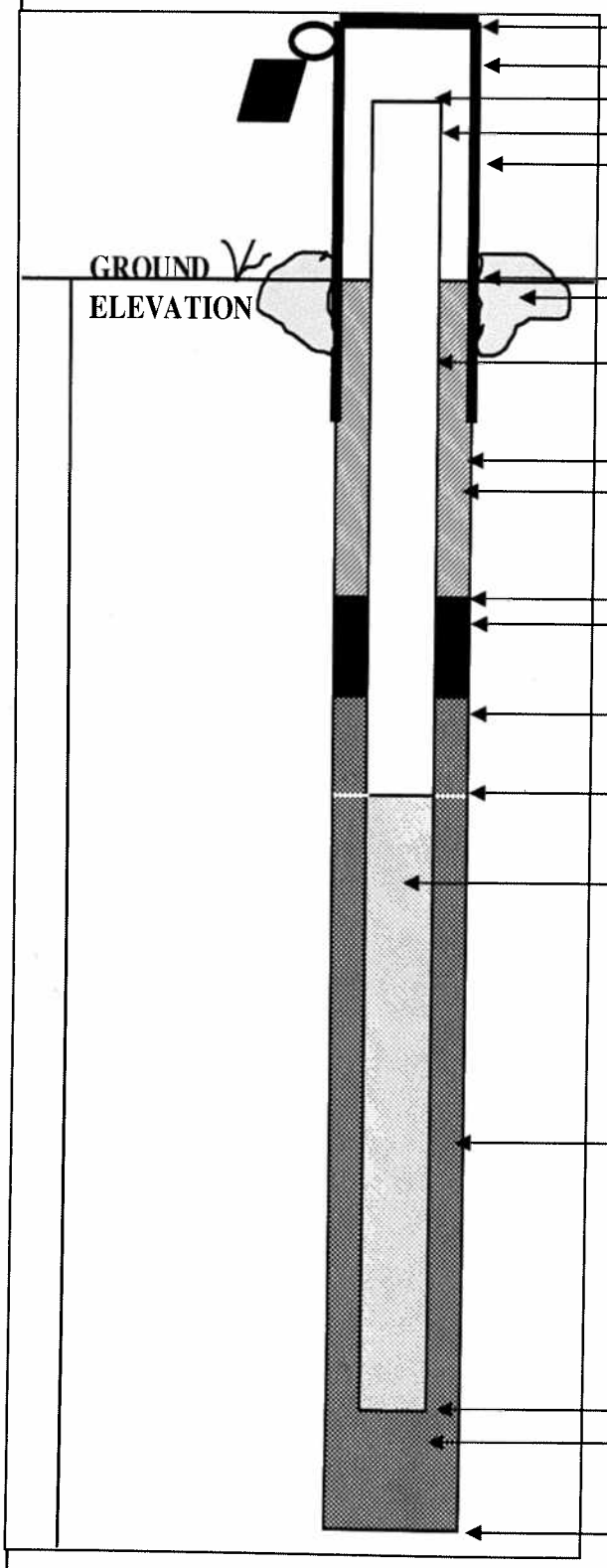
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: 170'

BORING NO.: SA-MW-132S

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-132-S
PROJECT No.:	112GN1610	DRILLER:	GUECI	DATE COMPLETED:	9/8/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING:

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONCRETE PAD

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: STEEL

BOREHOLE DIAMETER: 8"

TYPE OF SEAL: PART OF CONC PAD

ELEVATION / DEPTH OF SEAL: 12

TYPE OF SEAL: 1/4" BENTONITE PELLETS

ELEVATION / DEPTH TOP OF FILTER PACK: 13

ELEVATION / DEPTH TOP OF SCREEN: 14

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10 SL X 10'

I.D. OF SCREEN: 2"

TYPE OF FILTER PACK: #1 FILPRO FILTER SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 14

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 14

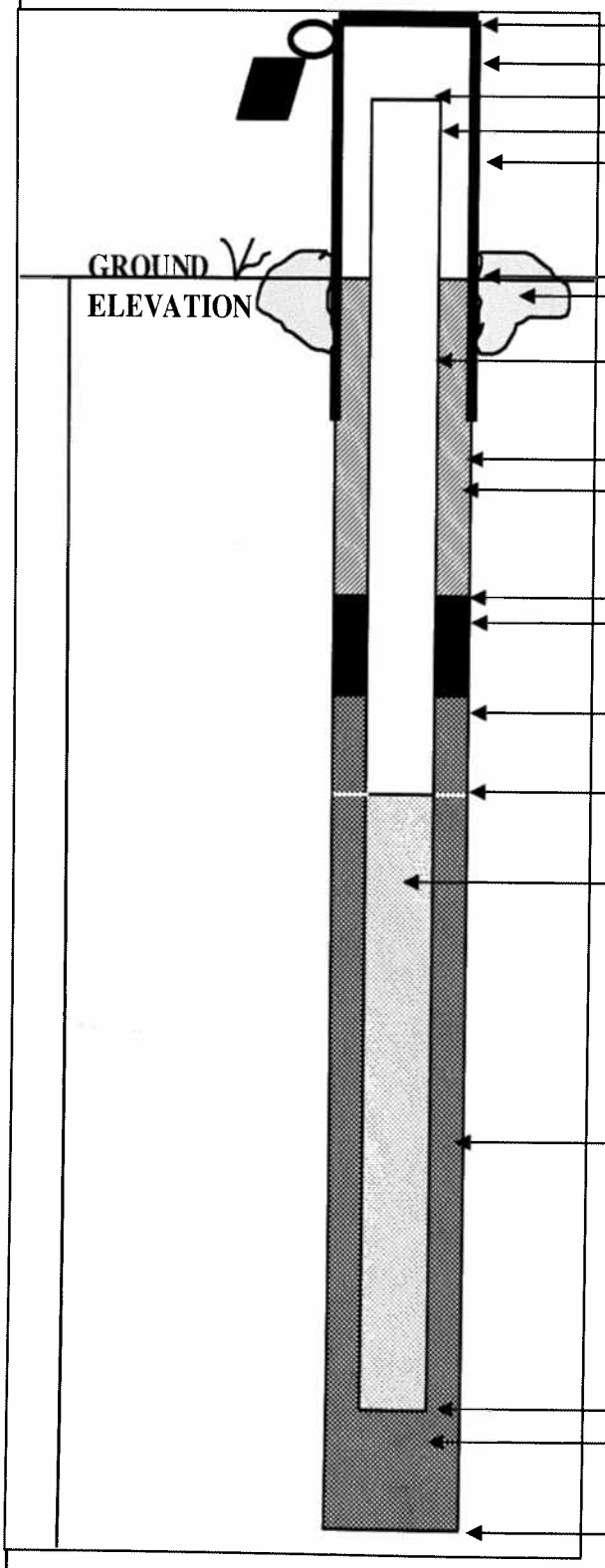
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: 14

BORING NO.: SA-MW-132I

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

PROJECT:	NWIRP CALVERTON	DRILLING Co.:	DELTA	BORING No.:	SA-MW-132I
PROJECT No.:	112GN1610	DRILLER:	GUECI	DATE COMPLETED:	9/8/09
SITE:	SOUTHERN AREA	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	CONTI	DEV. METHOD:		EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING:

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE:

I.D. OF SURFACE CASING:

TYPE OF SURFACE CASING: STEEL

GROUND ELEVATION:

TYPE OF SURFACE SEAL: CONCRETE PAD.

RISER PIPE I.D.: 2"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 8"

TYPE OF SEAL: 1/4" Φ BENTONITE PELLETS

ELEVATION / DEPTH OF SEAL: /19

TYPE OF SEAL: #00 SAND 22

ELEVATION / DEPTH TOP OF FILTER PACK: /24

ELEVATION / DEPTH TOP OF SCREEN: /27

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10 SL x 10'

I.D. OF SCREEN: 2" Φ

TYPE OF FILTER PACK: #1 FILPRO QUARTZ SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: /37

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /37

TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: /37

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-01S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/16.70 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 8.91 DATE: 9/14/09

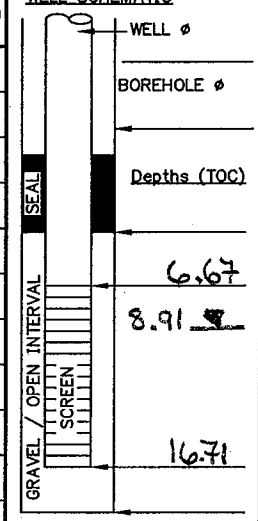
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

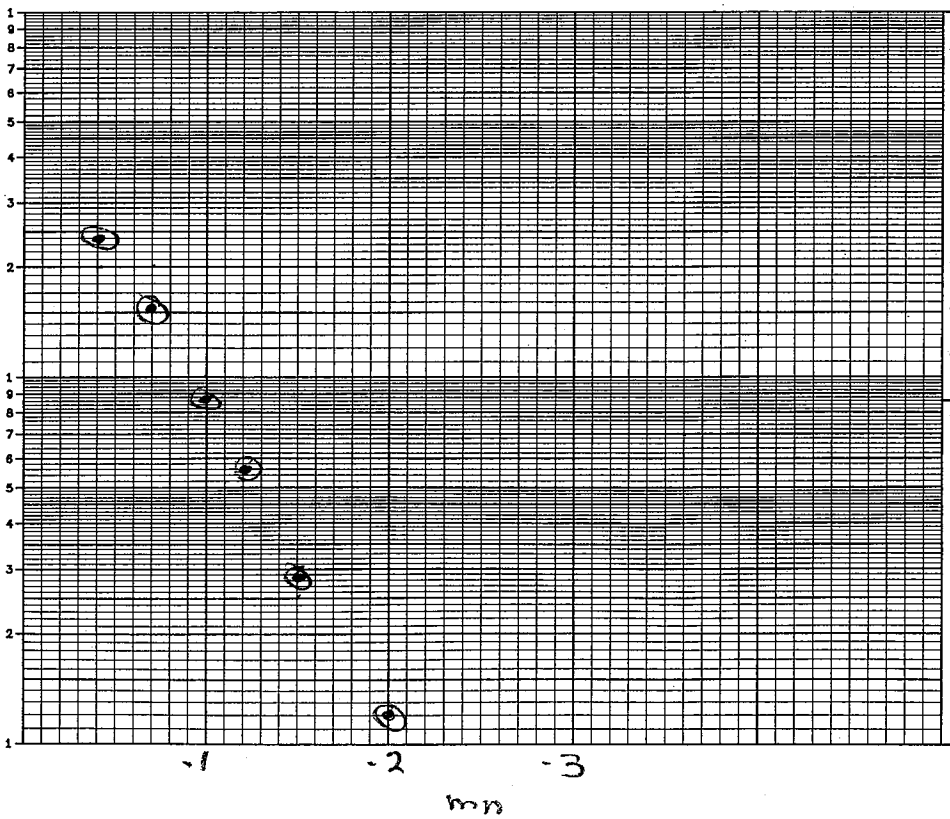
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.043		2.42			
.07		1.57			
.10		.86			
.12		.55			
.15		.28			
.20		.12			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

GRAPH GOOD

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-01S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10 ft / 16.70 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 8.91 DATE: 9/14/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

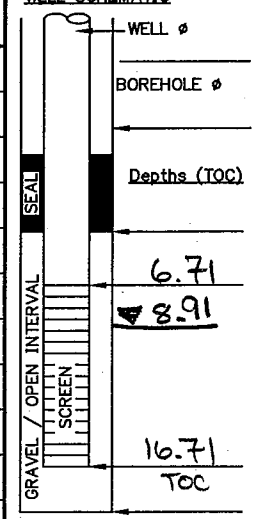
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG. PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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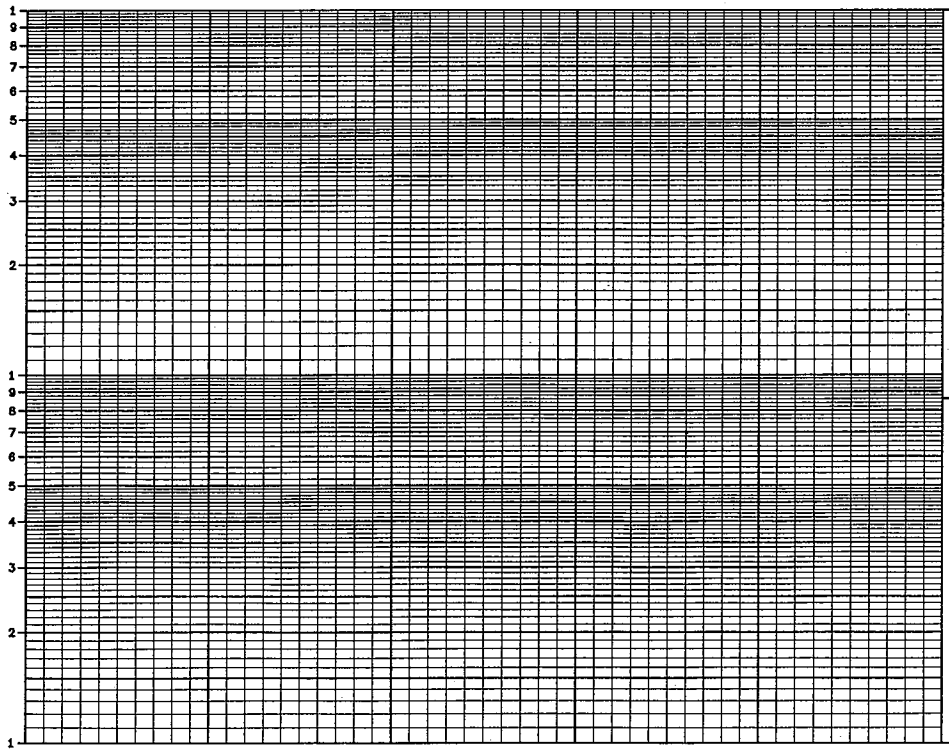


REMARKS:

GRAPH ? OK

See RISING TEST

WL IS BELOW

TOP OF SCREEN.

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-01I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10/57.50 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 8.71 DATE: 9/14/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

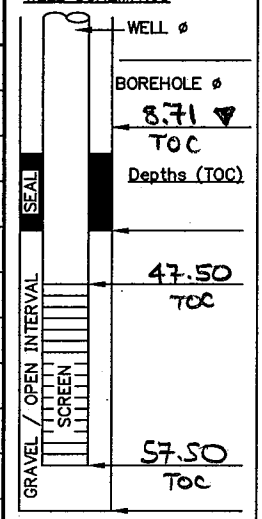
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.091		2.94			
.15		2.01			
.25		1.12			
.3		.86			
.4		.49			
.5		.27			
.75		.06			
1.00		.01			

WELL SCHEMATIC



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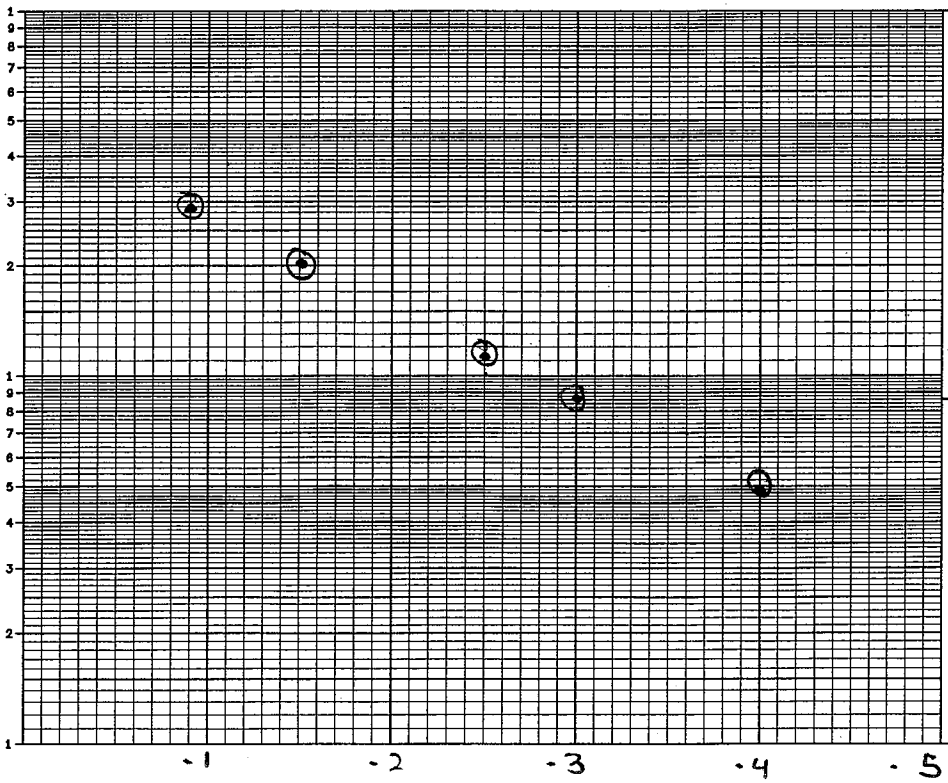


REMARKS:

GRAPH GOOD

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-01I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10/ 57.50 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 8.71 DATE: 9/14/09

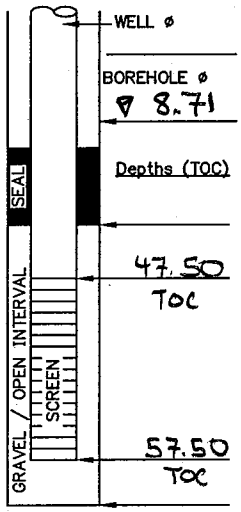
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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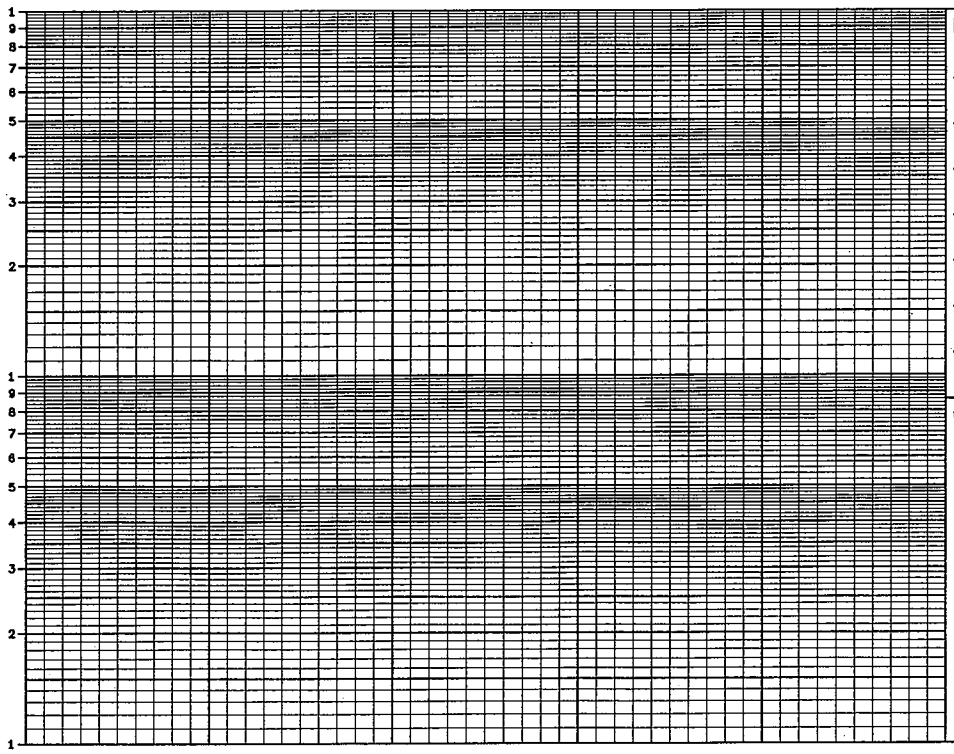


REMARKS:

GRAPH GOOD (OK) ON WIN SHEET

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW04S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/15.11 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): DATE: 9/14/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

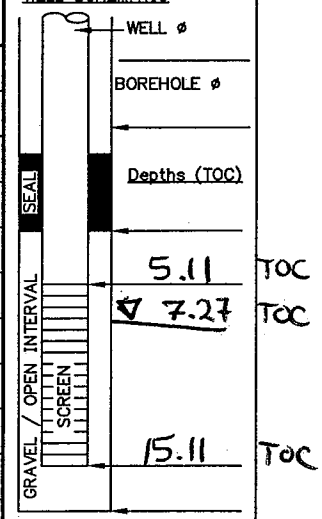
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG 4" PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

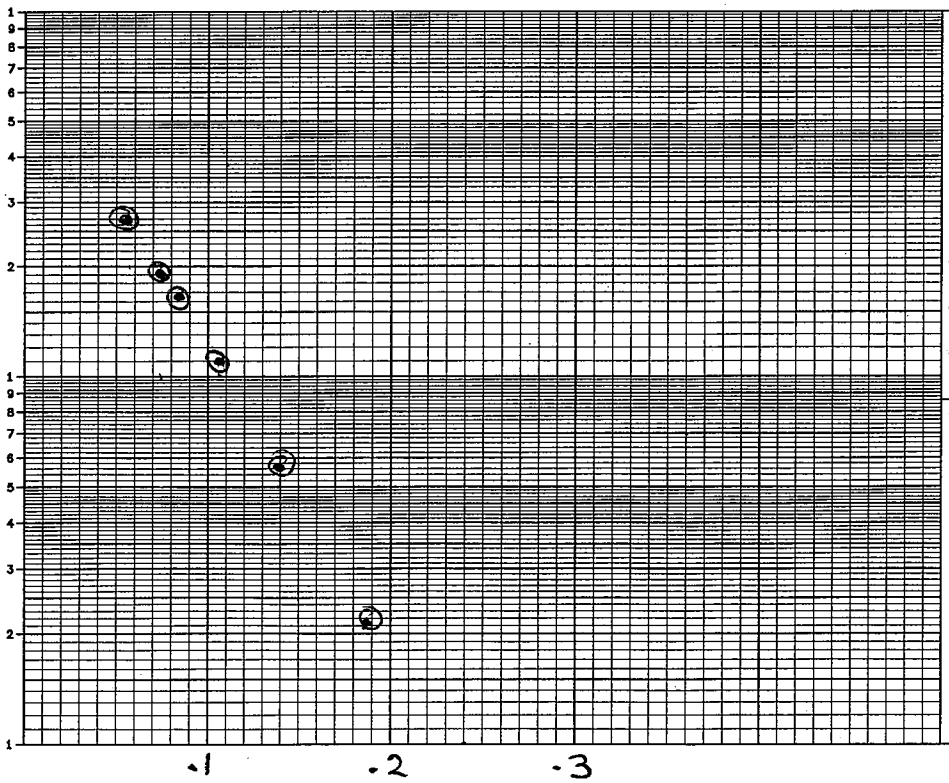
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.058		2.70			
.067		2.21			
.075		1.90			
.082		1.66			
.094		1.33			
.106		1.06			
.126		.71			
.14		.53			
.168		.32			
.188		.21			
.237		.09			
.298		.05			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

GRAPH GOOD

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW04S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/15.11 TEST NO.: FAL1

STATIC WATER LEVEL (Depth/Elevation): 7.27 DATE: 9/14/09

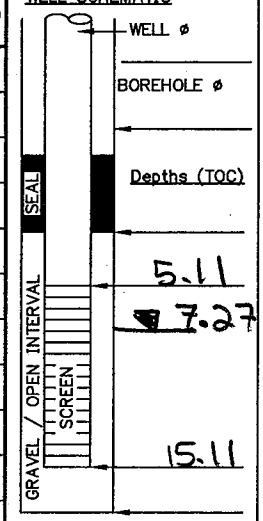
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: PAGE 1 OF 1

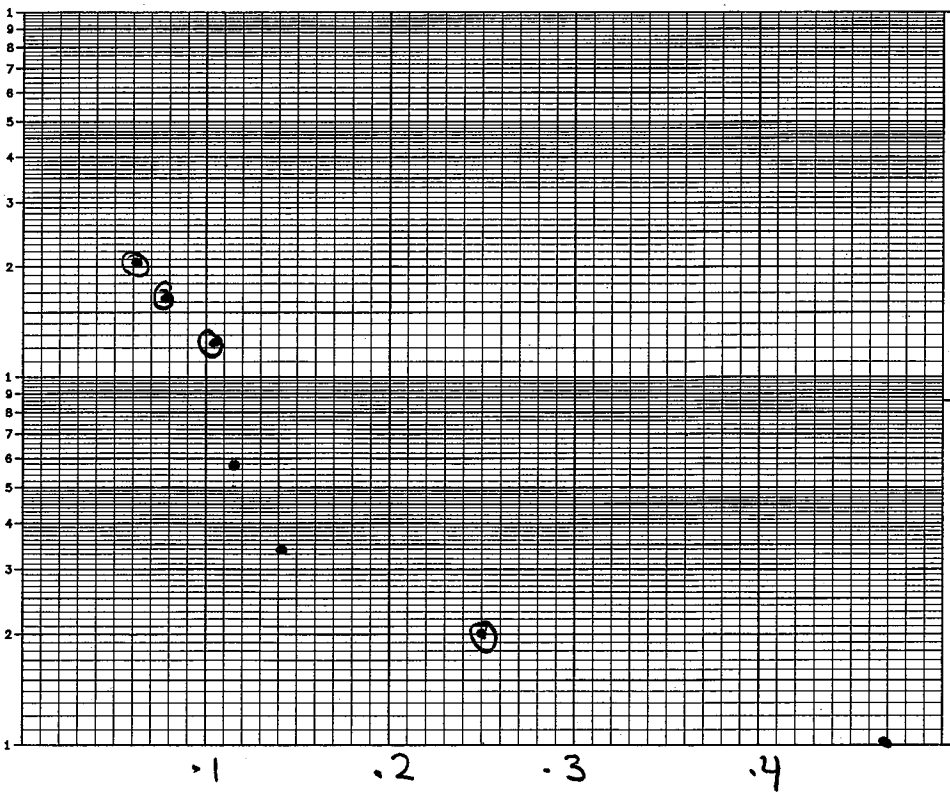
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.063		2.03			
.079		1.65			
.103		1.22			
.115		.56			
.141		.34			
.251		.20			
.473		.10			

WELL SCHEMATIC



Indicate SWL Depth on Drawing



REMARKS: PLOT RISING IS BETTER.

CALCS, SKETCH MAPS, ETC.:

ACAD: FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW04I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/51.30 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 7.20' DATE: 9/14/09

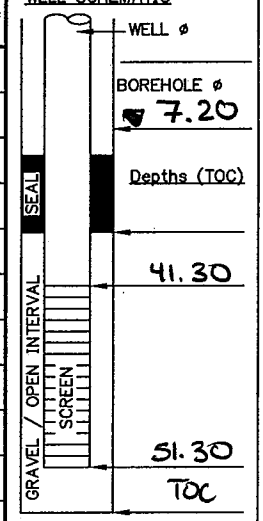
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.086		3.12			
.106		2.44			
.133		1.90			
.188		1.52			
.298		1.06			
.422		.75			
.596		.48			
.841		.26			
1.00		.165			
1.50		.048			

WELL SCHEMATIC



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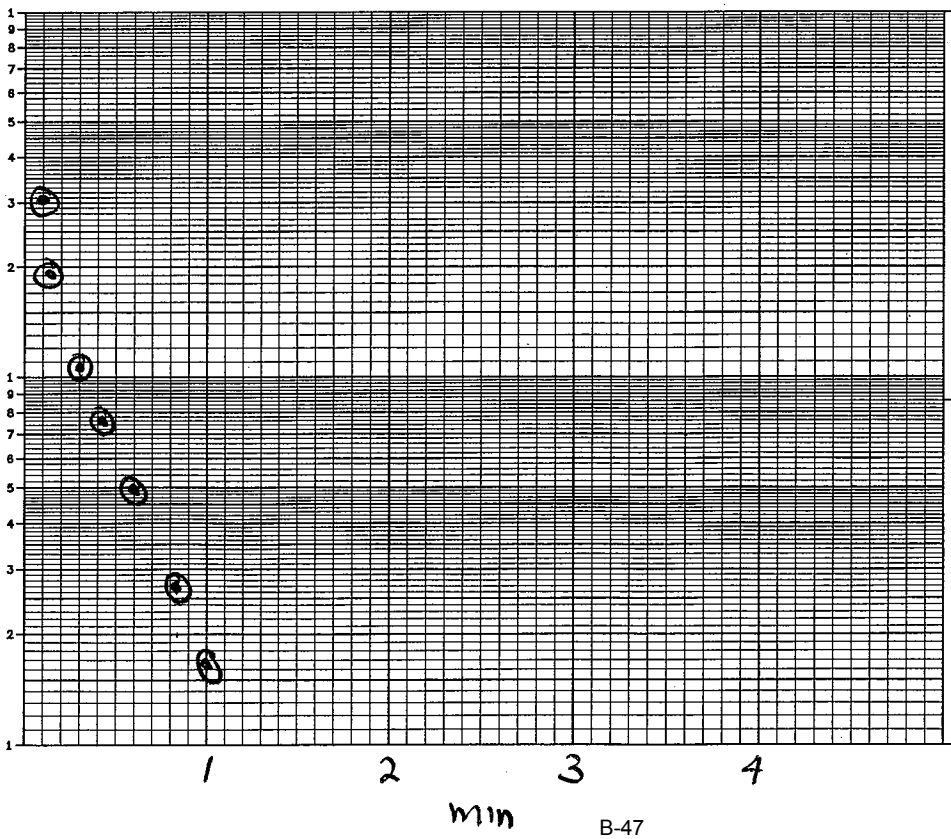


REMARKS:

OK

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW04I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/ 51.30 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 7.20 DATE: 9/14/09

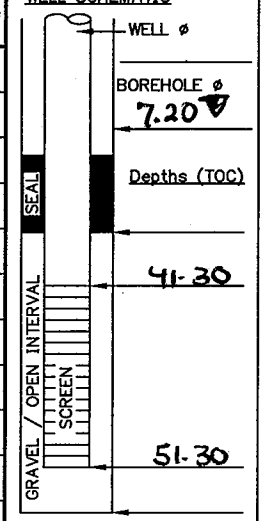
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.042		2.95			
.075		2.34			
.100		1.98			
.199		1.04			
.298		.55			
.398		.28			
.501		.14			

WELL SCHEMATIC



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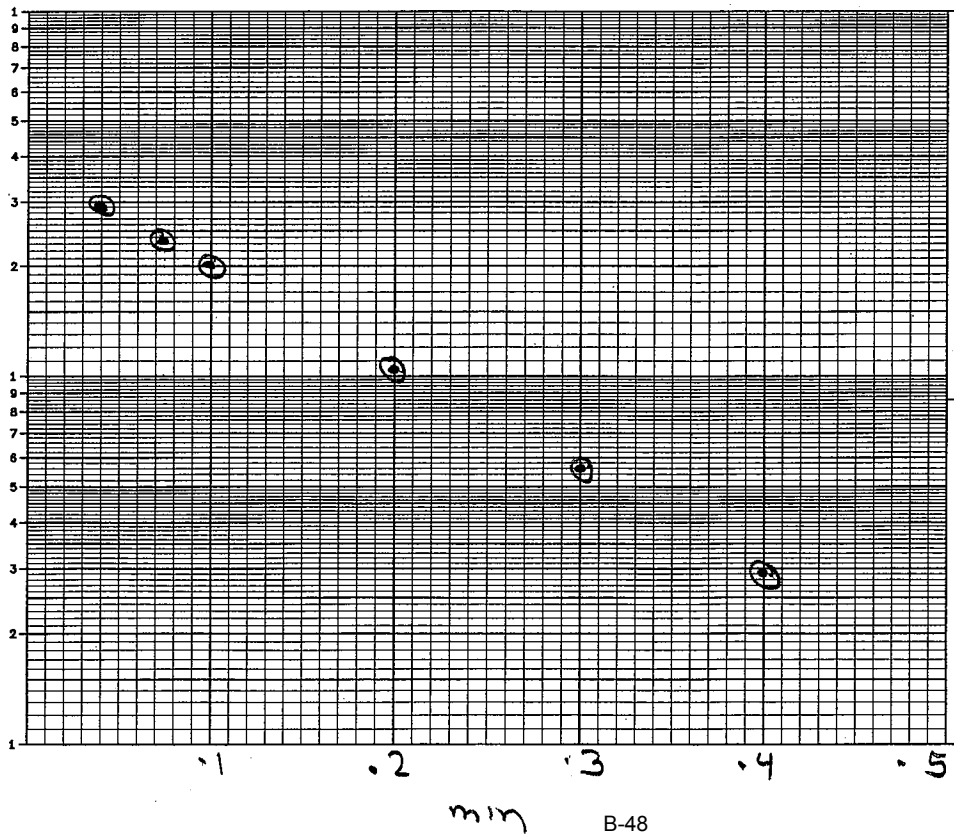


REMARKS:

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-05S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/17.75 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 10.42 DATE: 9/14/09

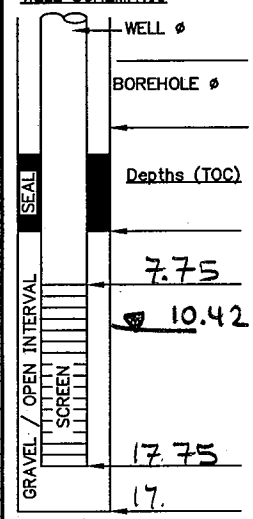
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

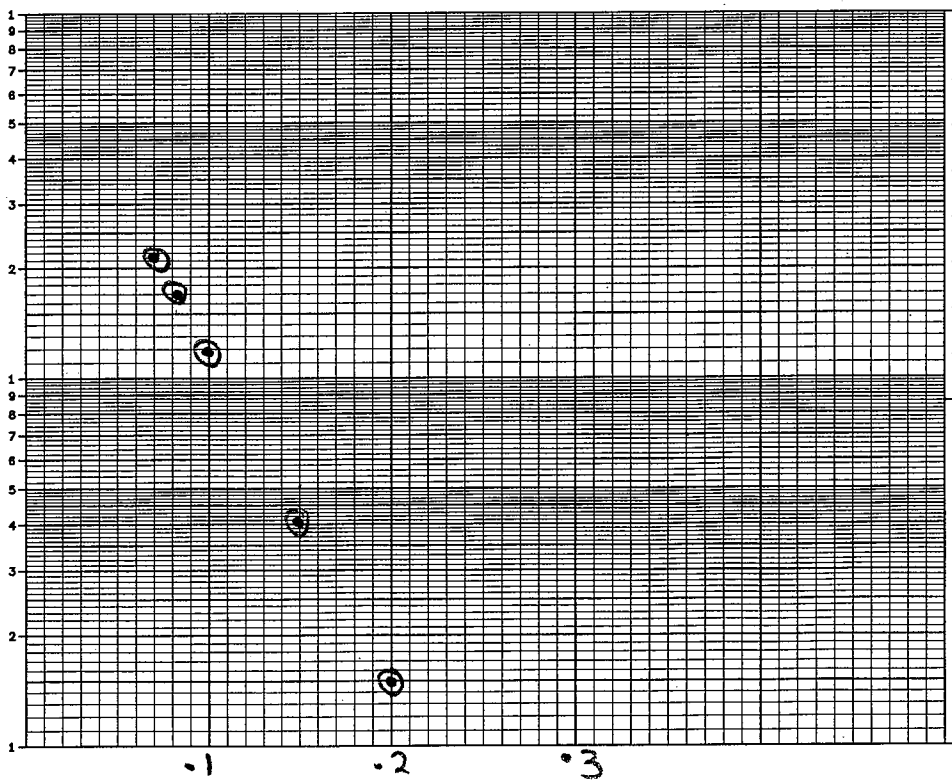
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.072		2.13			
.083		1.69			
.100		1.18			
.15		.40			
.20		.15			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

GRAPH GOOD.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-05S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/17.75 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 10.42 DATE: 9/14/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

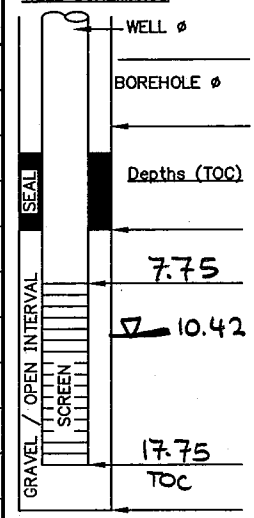
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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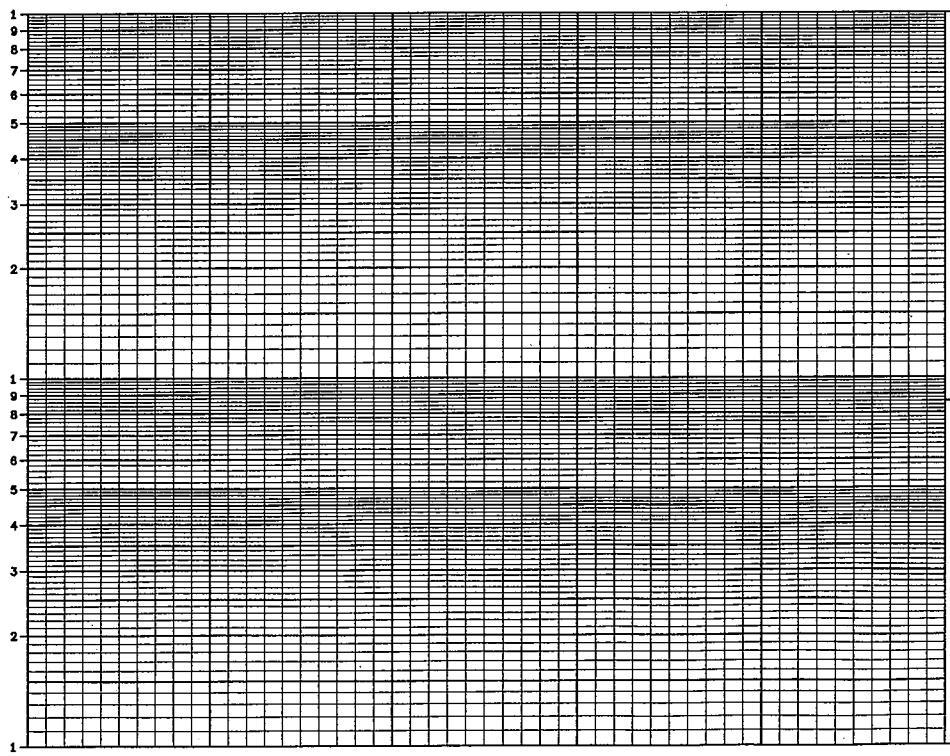


REMARKS:

WL BELOW TOP OF SCREEN SEE RISING

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-05I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/59.40 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 9.74 DATE: 9/14/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

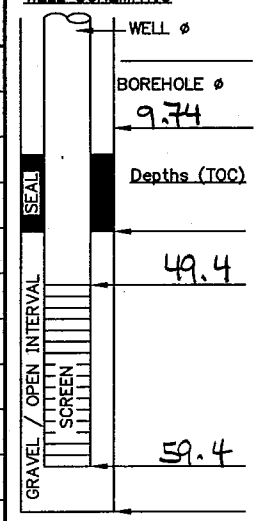
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

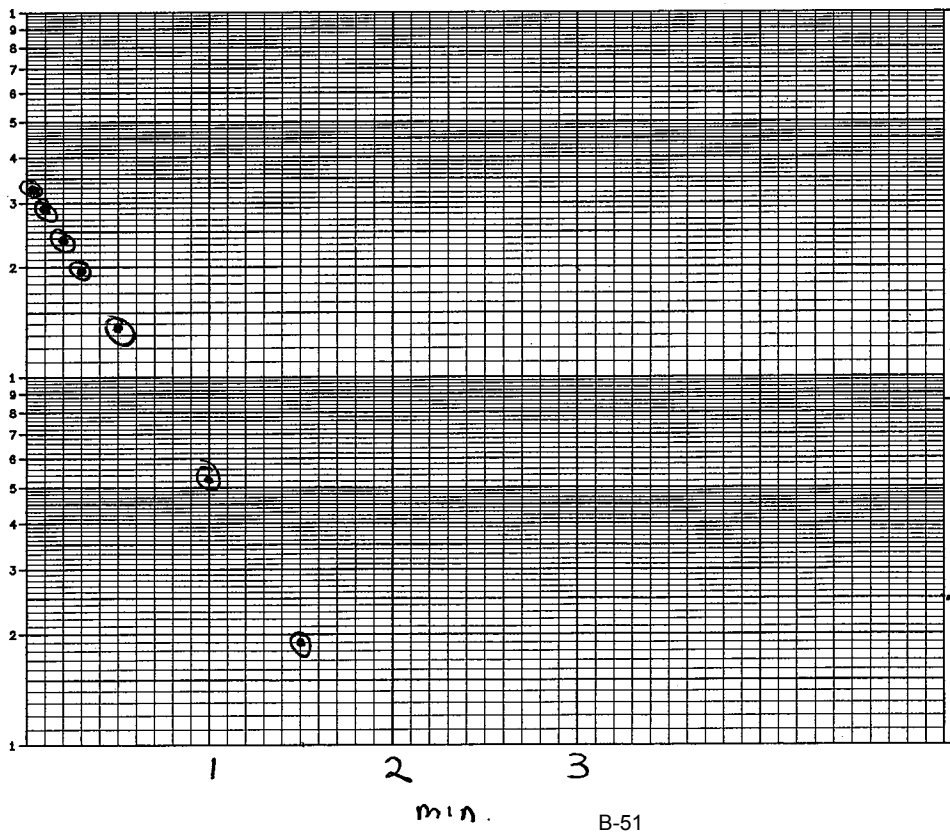
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.055		3.29			
.100		2.86			
.200		2.38			
.300		1.97			
.500		1.34			
1.0		.52			
1.5		.19			
2		.07			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

GRAPH GOOD

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-05I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10 / 59.40 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 9.74 DATE: 9/14/09

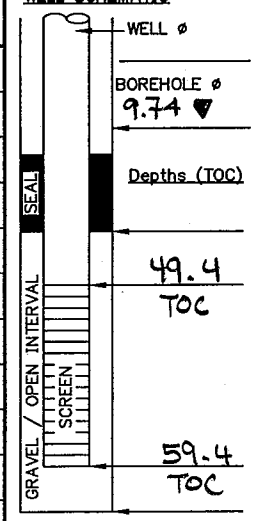
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 4" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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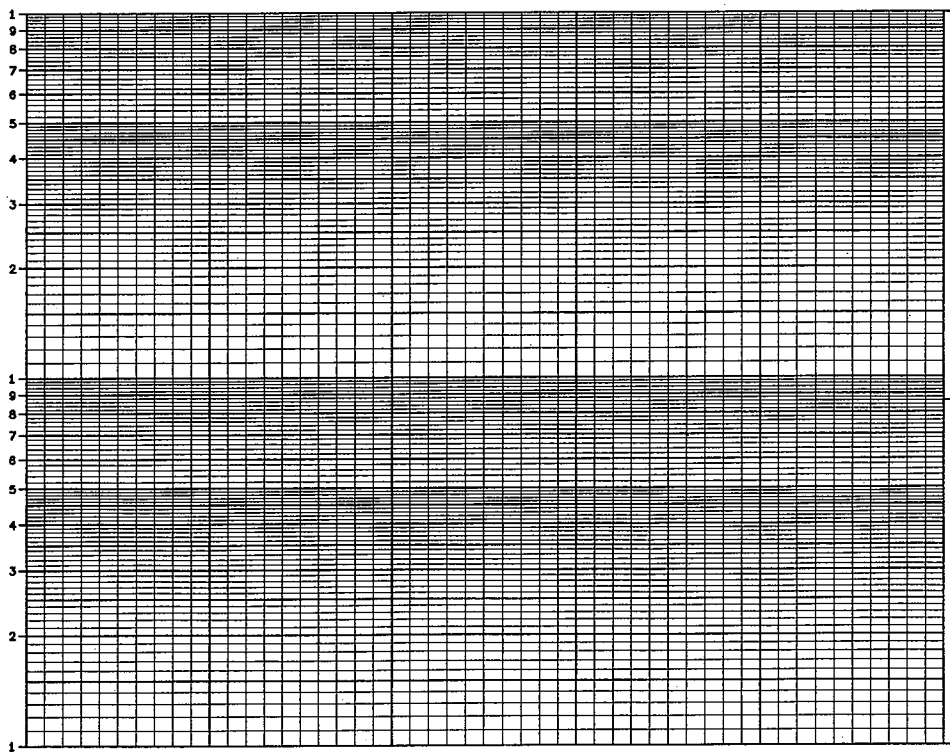


REMARKS:

GRAPH GOOD

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-07S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 4" SCREEN LENGTH/DEPTH: 10'/17.05 TEST NO.: RIS1, 2, 3

STATIC WATER LEVEL (Depth/Elevation): 10.45' TOC DATE: 9/16/09

TEST TYPE (Rising/Falling/Constant Head): RISING 3 TESTS HERE CHECKED:

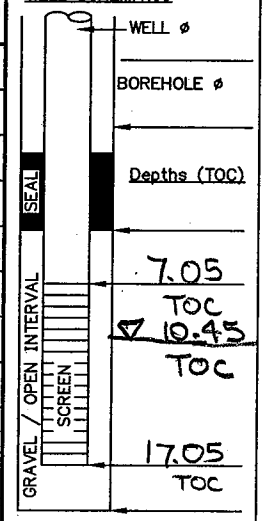
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC 4 in SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

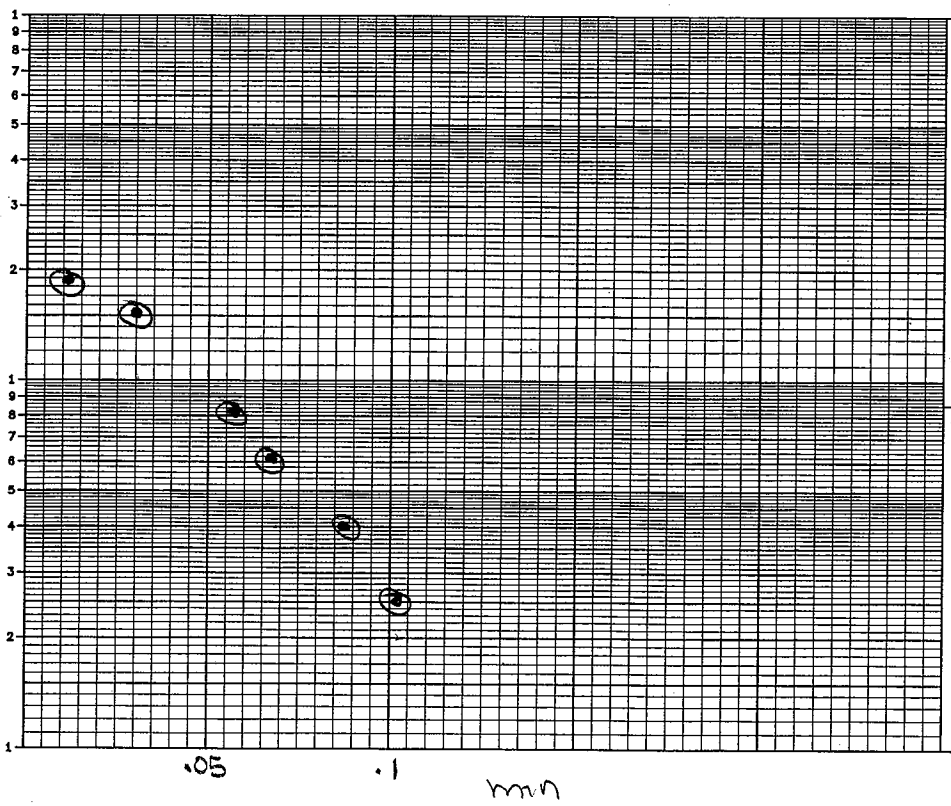
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.013	RIS 2	1.91			
.031		1.54			
.042		1.18			
.057		.81			
.068		.61			
.083		.40			
.103		.25			
.133		.14			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:
RISING ONLY HERE
~0820 HRS SJC
Press 2.751

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-07I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: SCREEN LENGTH/DEPTH: 10'/60.1 TEST NO.: RIS 1,2

STATIC WATER LEVEL (Depth/Elevation): 10.40 DATE: 9/16/09

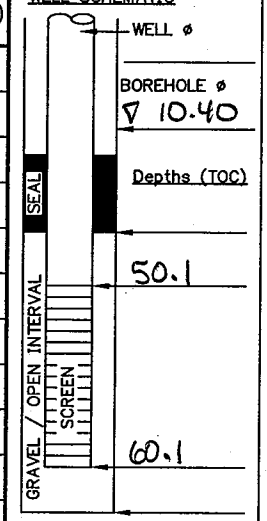
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
			.042	RIS 2	1.50
			.05		1.30
			.057		1.03
			.064		.72
			.072		.44
			.079		.20
			.083		.10

WELL SCHEMATIC



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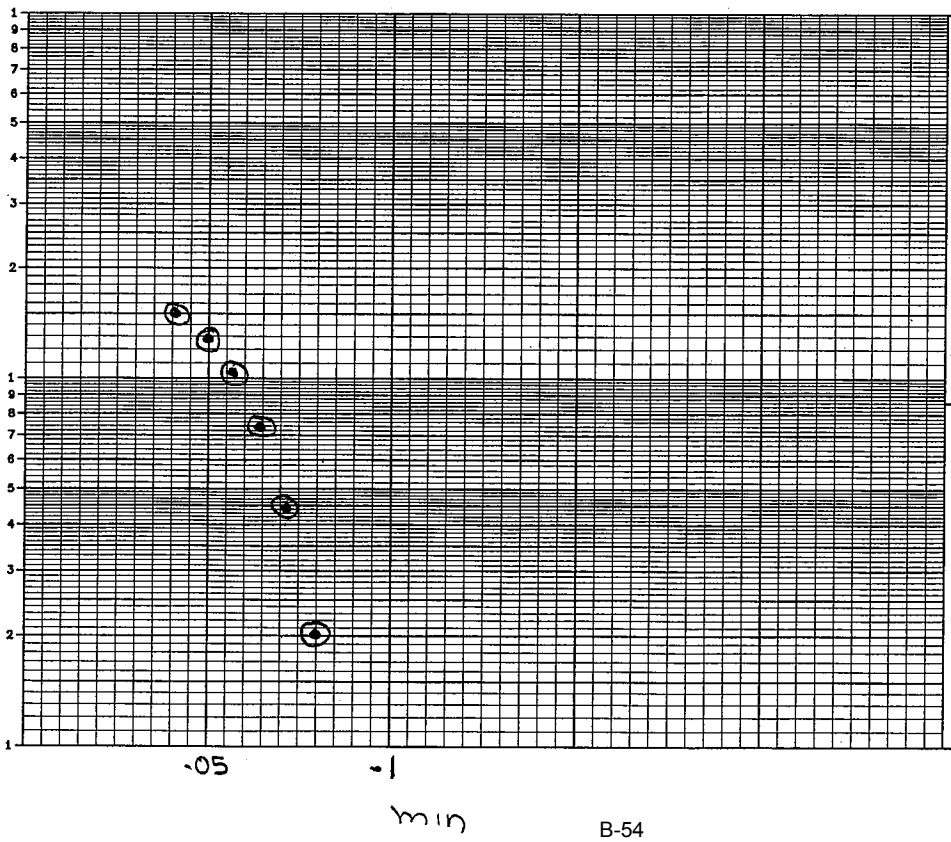


REMARKS:

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: FC-MW-07I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10'/60.1 TEST NO.: FALL 1, 2

STATIC WATER LEVEL (Depth/Elevation): 10.40 DATE: 9/16/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

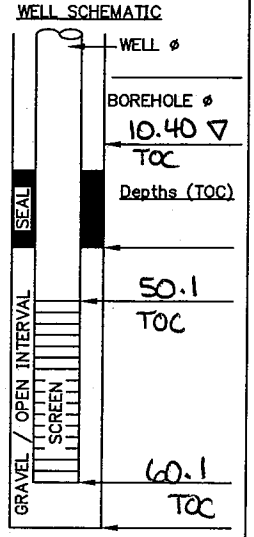
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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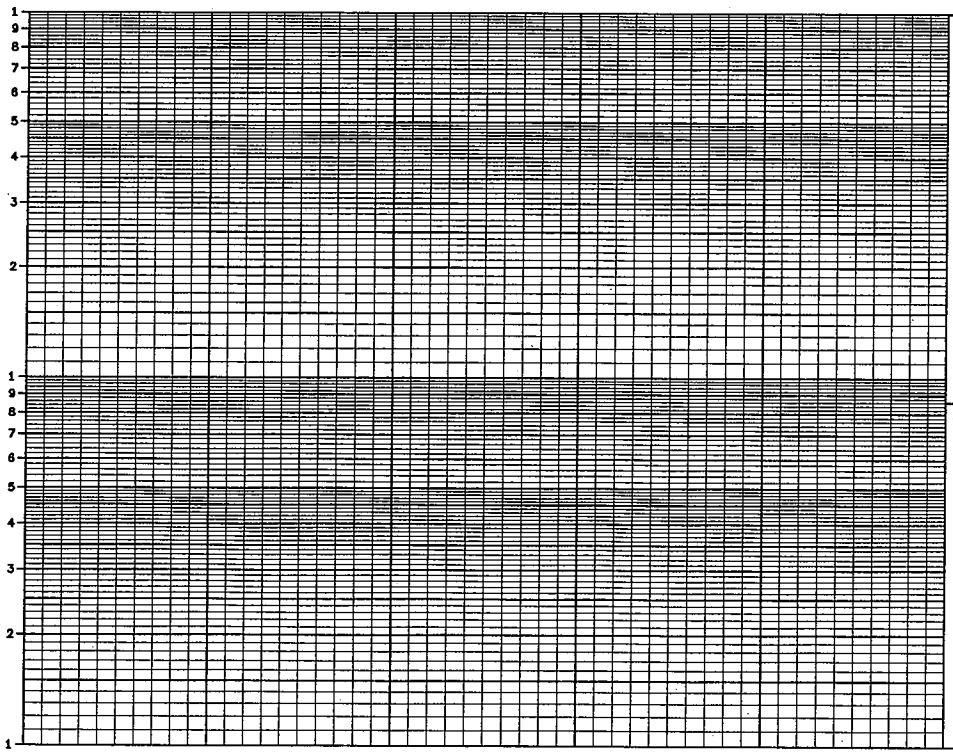


REMARKS:

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-118S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10/16 TEST NO.: R-1

STATIC WATER LEVEL (Depth/Elevation): 5.20 DATE: 9/13/09

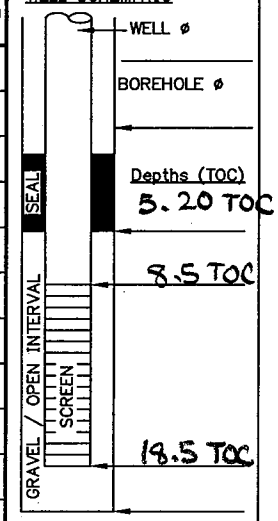
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

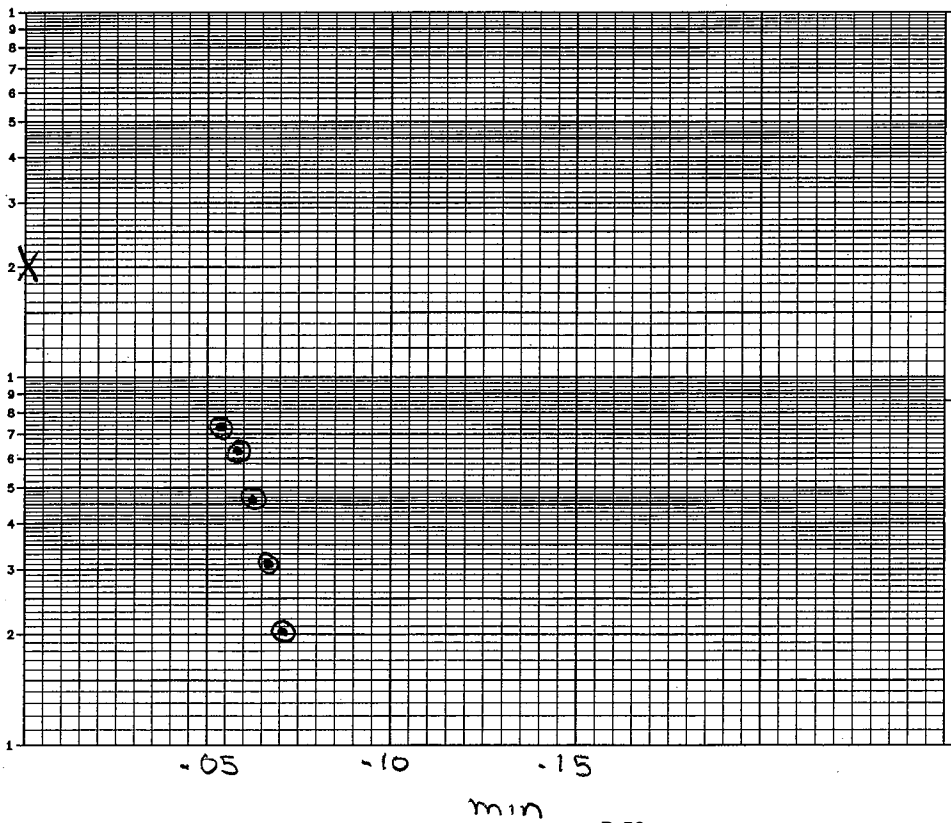
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.054		.74			
.058		.62			
.063		.46			
.067		.31			
.071		.20			
.075		.13			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

OK.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-118S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" Φ SCREEN LENGTH/DEPTH: 10/16 TEST NO.: F-1

STATIC WATER LEVEL (Depth/Elevation): 5.20 TPVC DATE: 9/3/09

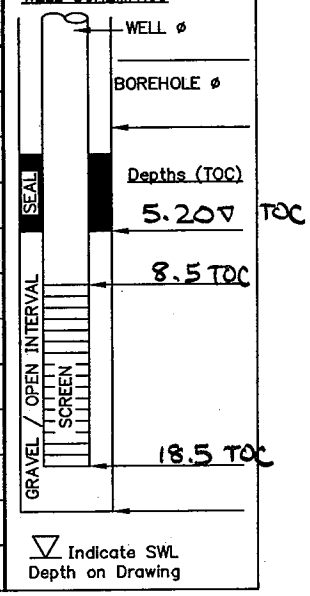
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

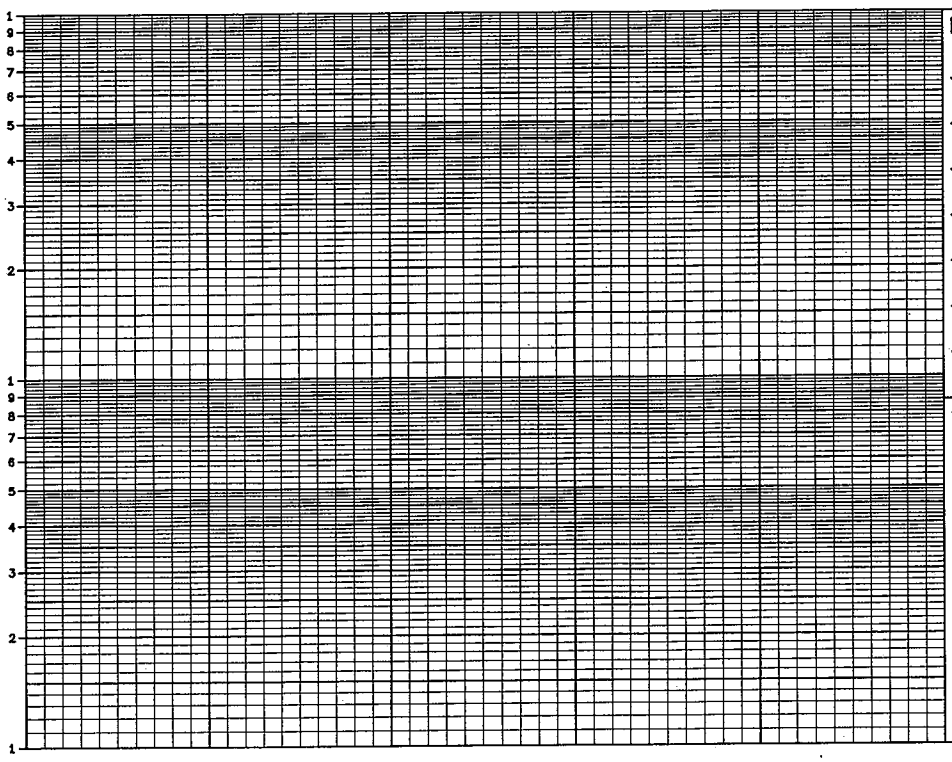
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG. PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC





REMARKS:
See Rising Head

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

ws1.(191056562.)

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-118I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/60' TEST NO.: R-1,2

STATIC WATER LEVEL (Depth/Elevation): 5.70 DATE: 9/3/09

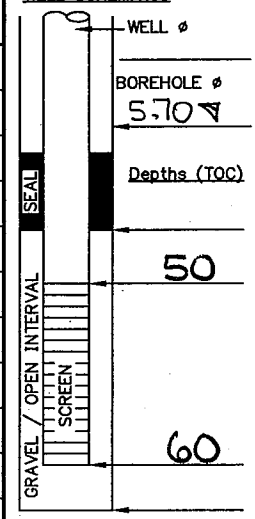
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

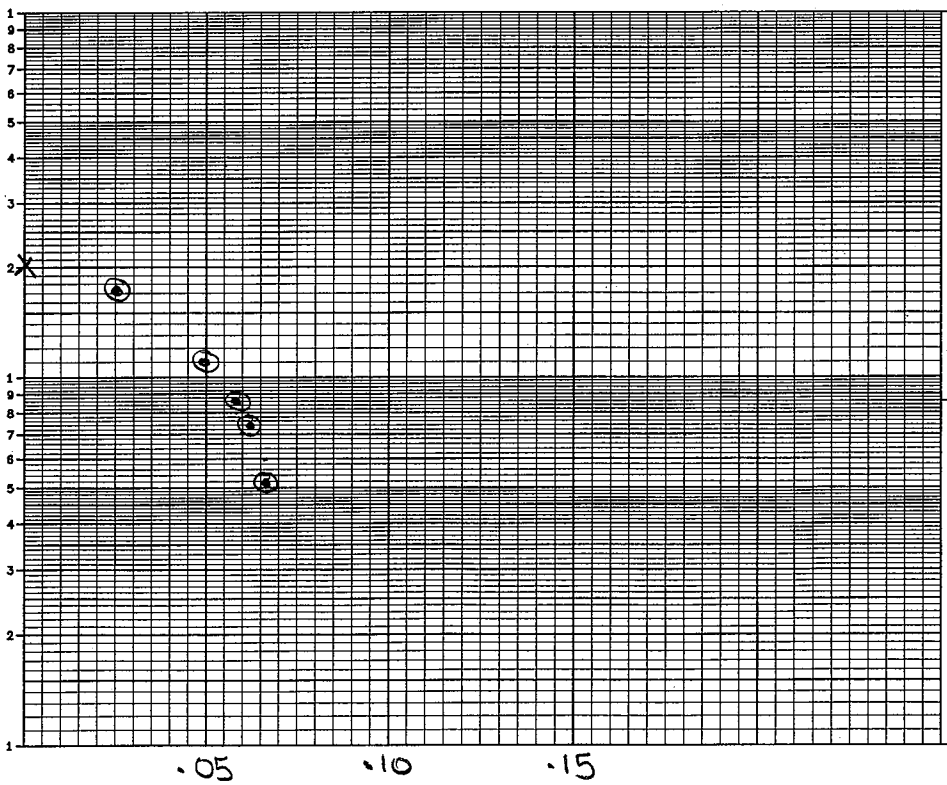
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.025		1.72			
.05		1.08			
.058		.86			
.063		.73			
.067		.51			
.071		.33			
.075		.17			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

DATA PTS OK w/ OSCILLATION

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-118I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/60' TEST NO.: F-1,2

STATIC WATER LEVEL (Depth/Elevation): 5.70 DATE: 9/3/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

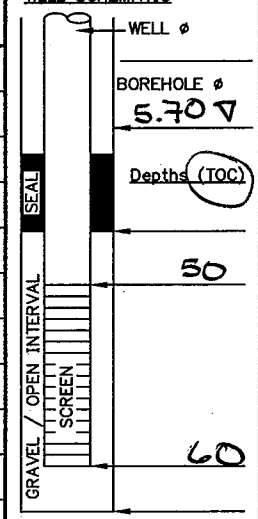
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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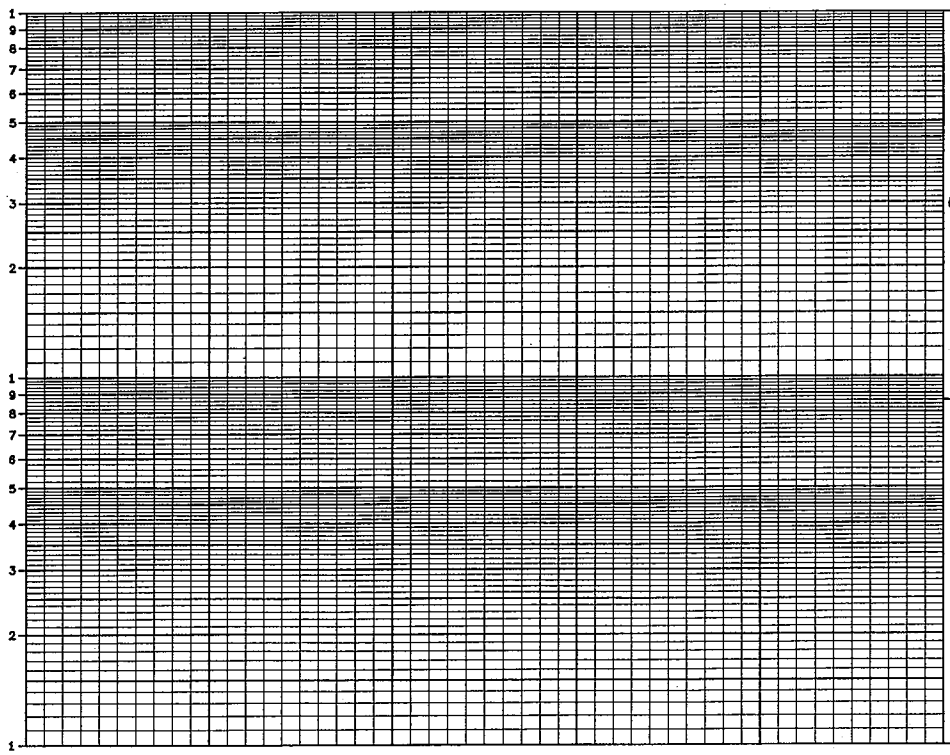


REMARKS:
SEE RISING HEAD SHEET.
FAST REC.
GRAPH LOOKS OK.

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-1235

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 19.10 TEST NO.: R-1

STATIC WATER LEVEL (Depth/Elevation): 9.35 DATE: 9/3/09

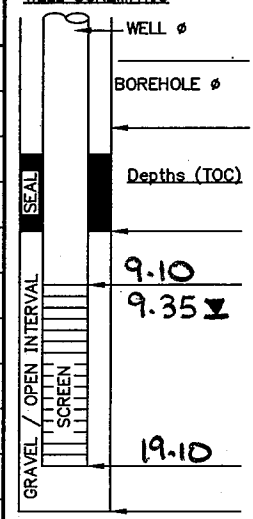
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.033		.84			
.038		.60			
.042		.36			
.063		.21			
.067		.11			
.075		.03			

WELL SCHEMATIC



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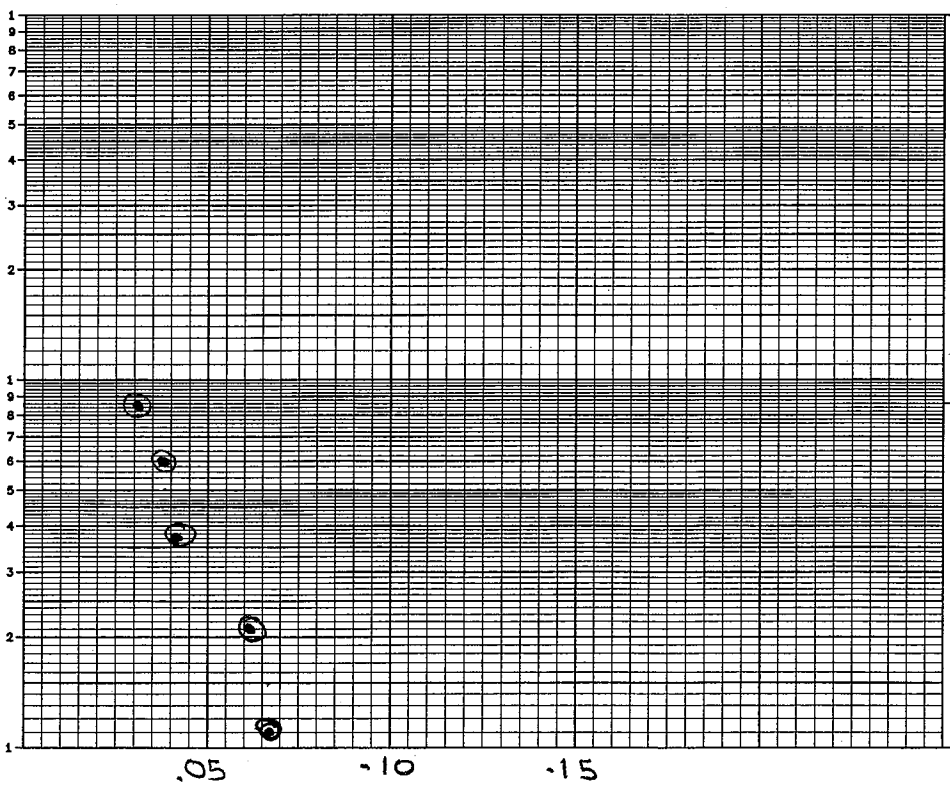


REMARKS:
RISING HEAD ONLY
FAST RECOVERY.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

(1630)

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-123I1

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10/ 44.50 TEST NO.: R-1

STATIC WATER LEVEL (Depth/Elevation): 9.90 DATE: 9/3/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

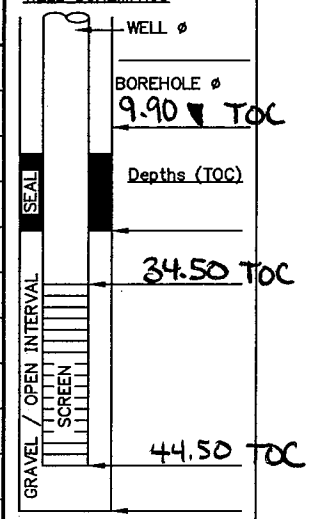
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.042		.82			
.05		.72			
.058		.50			
.063		.38			
.067		.25			
.071		.15			

WELL SCHEMATIC



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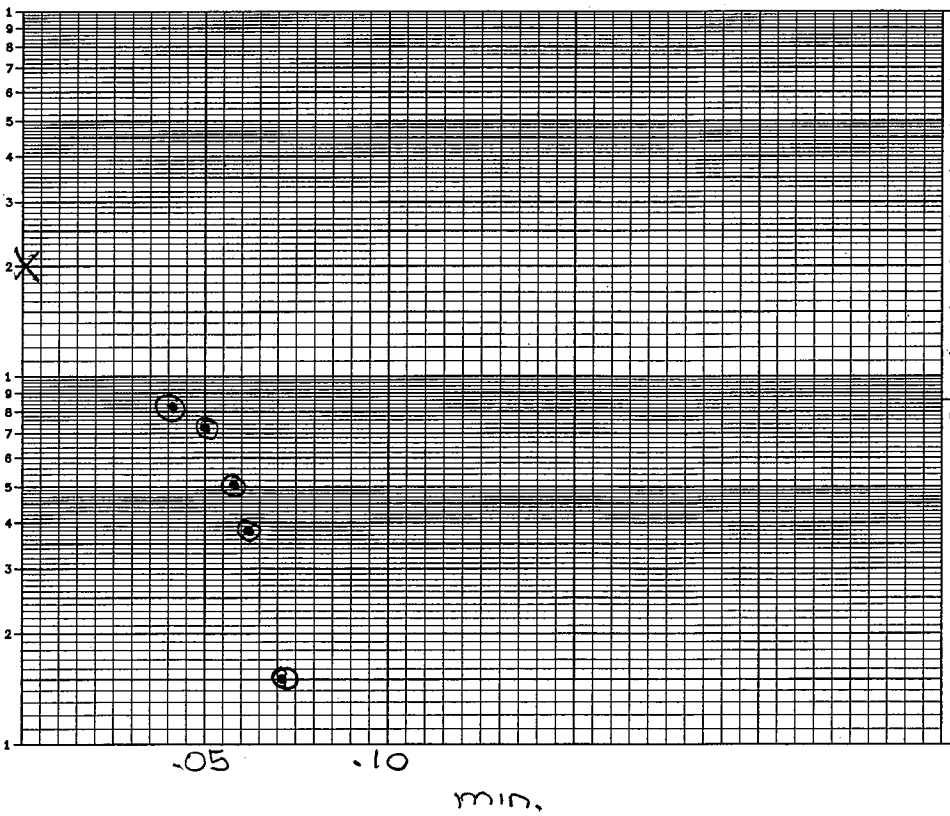


REMARKS:

DATA OK W/ OCILLATION.

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

(Deep)

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-PZ-123I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/83.7 TEST NO.: R-1

STATIC WATER LEVEL (Depth/Elevation): 10.50 DATE: 9/3/09

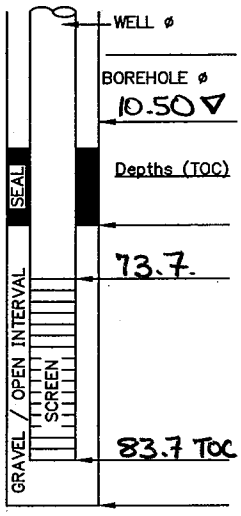
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 2 SECTION SLUG PAGE 1 OF 1

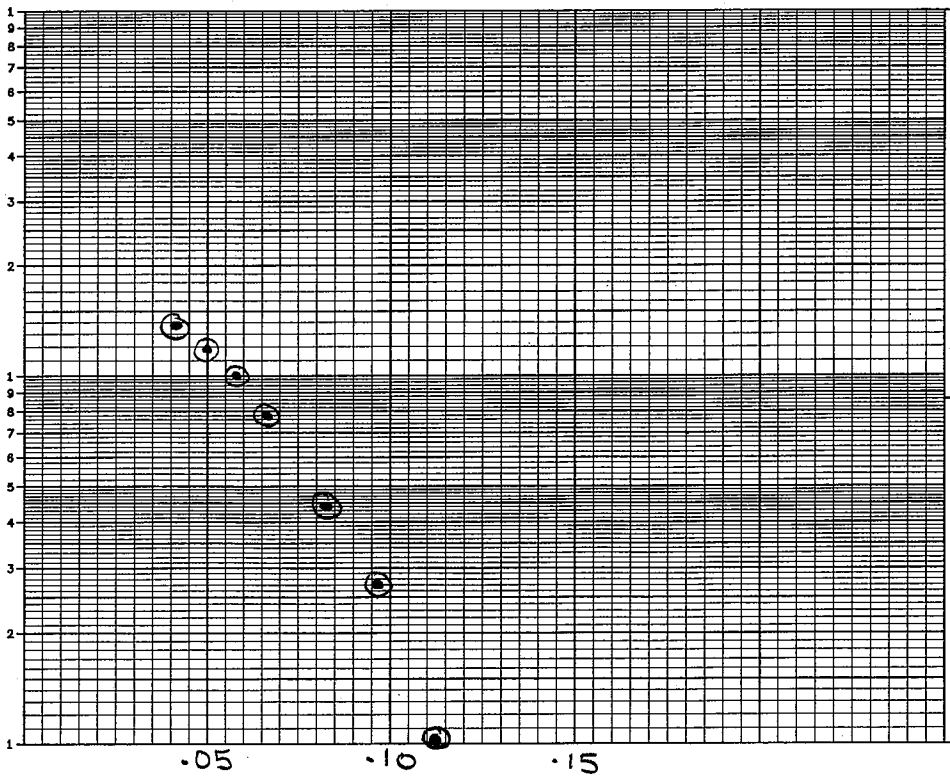
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.042		1.38			
.05		1.19			
.058		1.00			
.067		.78			
.075		.62			
.083		.44			
.096		.27			
.112		.10			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

Graph OK.
Fast Rec.
Data OK.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-127S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10/17.17 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 7.29' DATE: 9/10/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

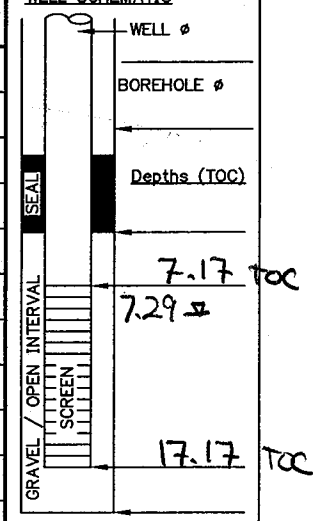
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

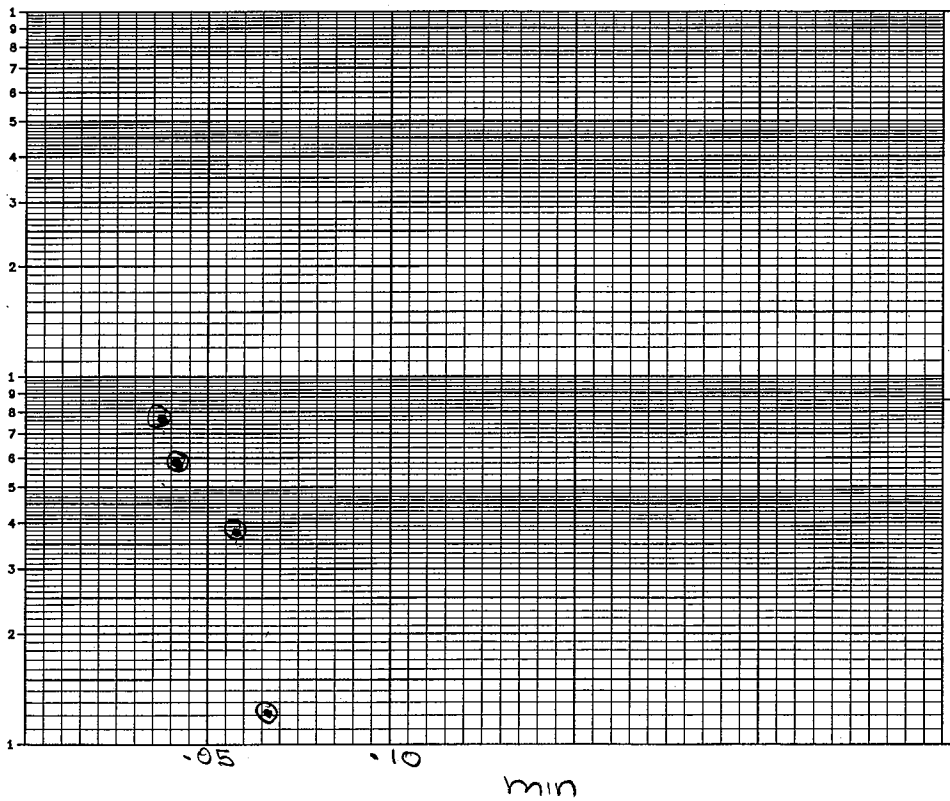
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.038	RIS 1	.77			
.042		.58			
.058		.37			
.067		.12			
.079		.04			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW127S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10/17.17 TEST NO.: FAL1

STATIC WATER LEVEL (Depth/Elevation): 7.29 DATE: 9/10/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

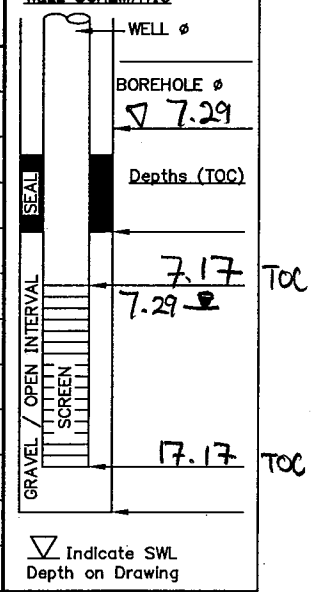
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

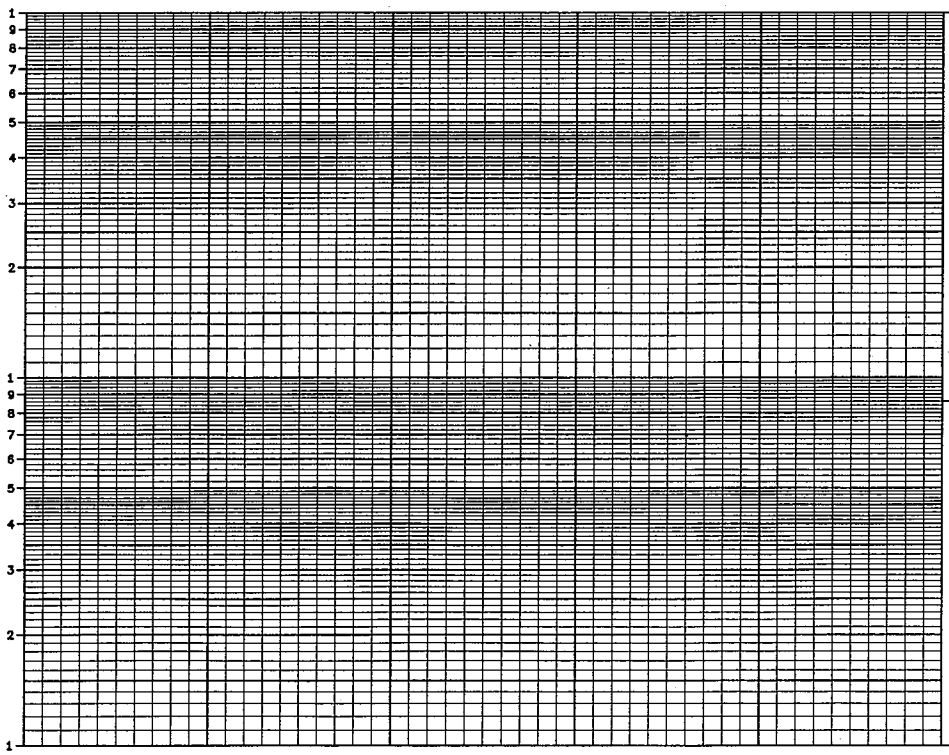
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC





REMARKS:

See Rising Head Graph OK WinSitu Very Fast Rec < 10 sec ±

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW127I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10/48' TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 7.48' DATE: 9/10/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

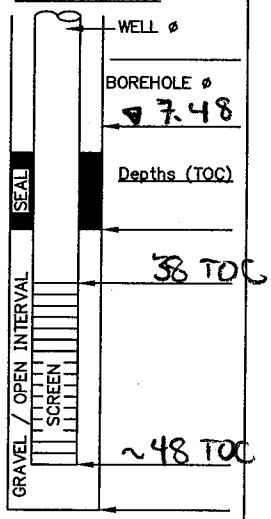
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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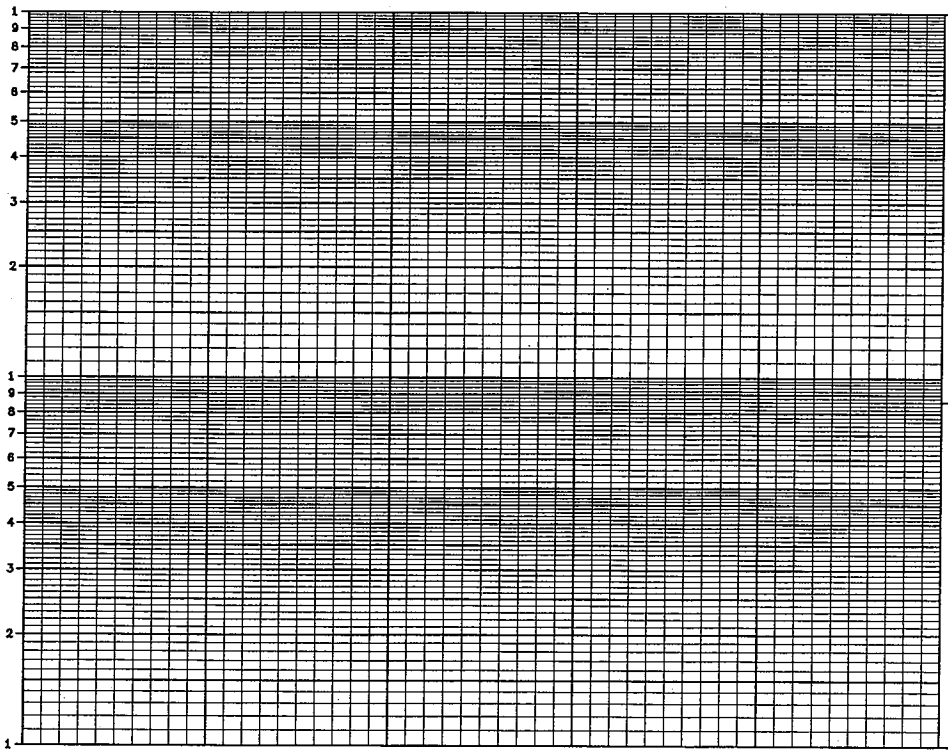


REMARKS:
Plot ok WinSitu
Very Fast Rec.

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW127T

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10/48' TEST NO.: FAL1

STATIC WATER LEVEL (Depth/Elevation): 7.48 DATE: 9/10/09

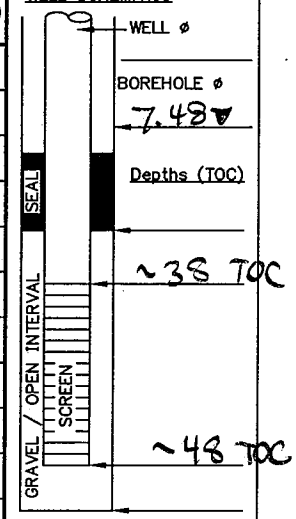
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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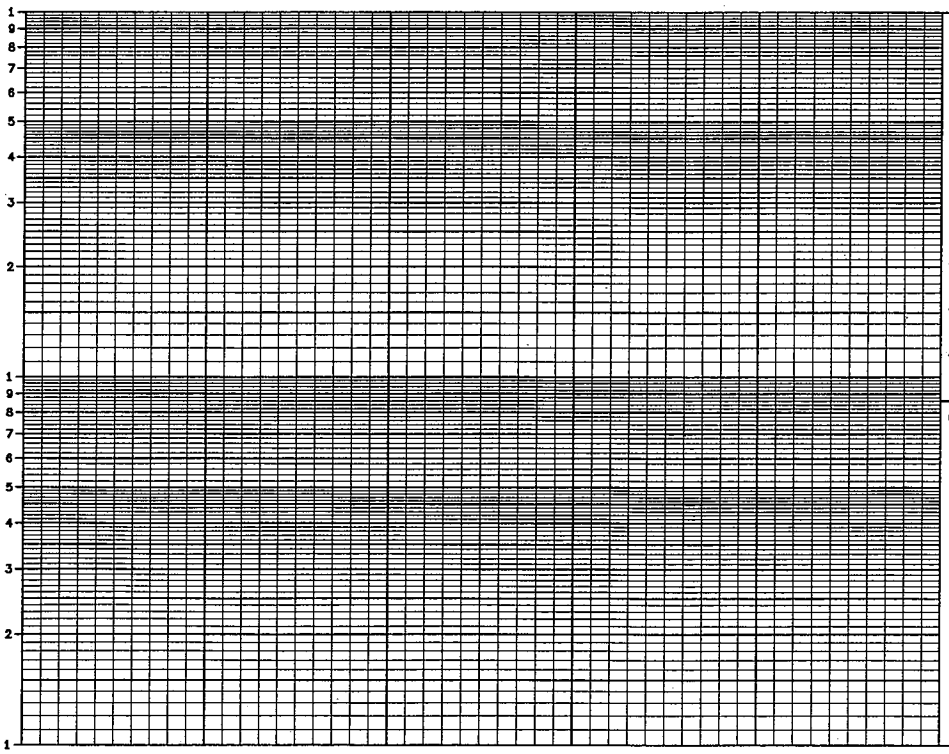


REMARKS:
See Rising Head sheet.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-127D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/77.2 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 8.75 DATE: 9/10/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

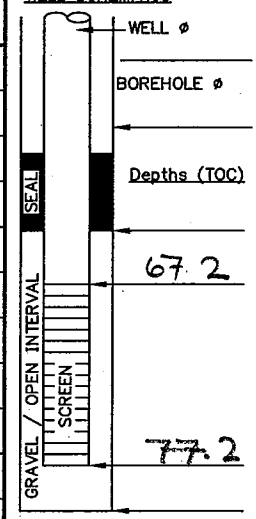
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.054		2.15			
.063		1.87			
.071		1.55			
.079		1.16			
.087		.81			
.096		.53			
.106		.24			
.112		.11			

WELL SCHEMATIC



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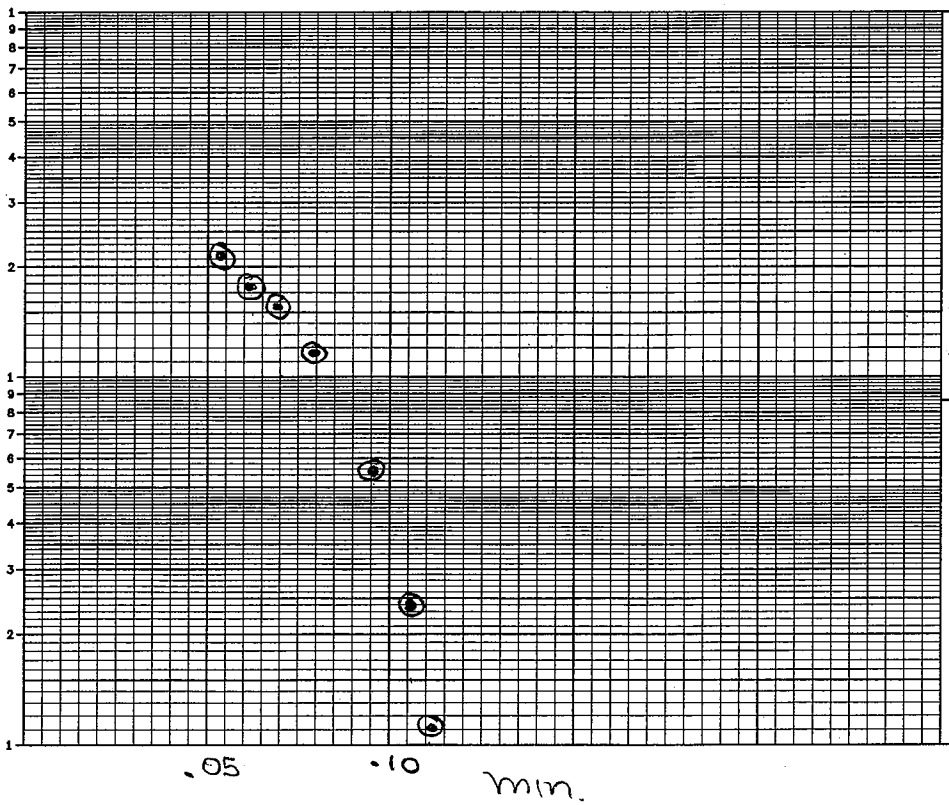


REMARKS:

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-127D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/77.2 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 8.75 DATE: 9/10/09

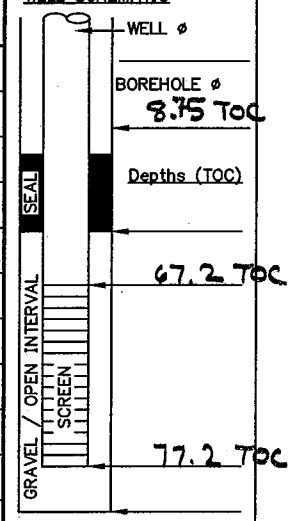
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

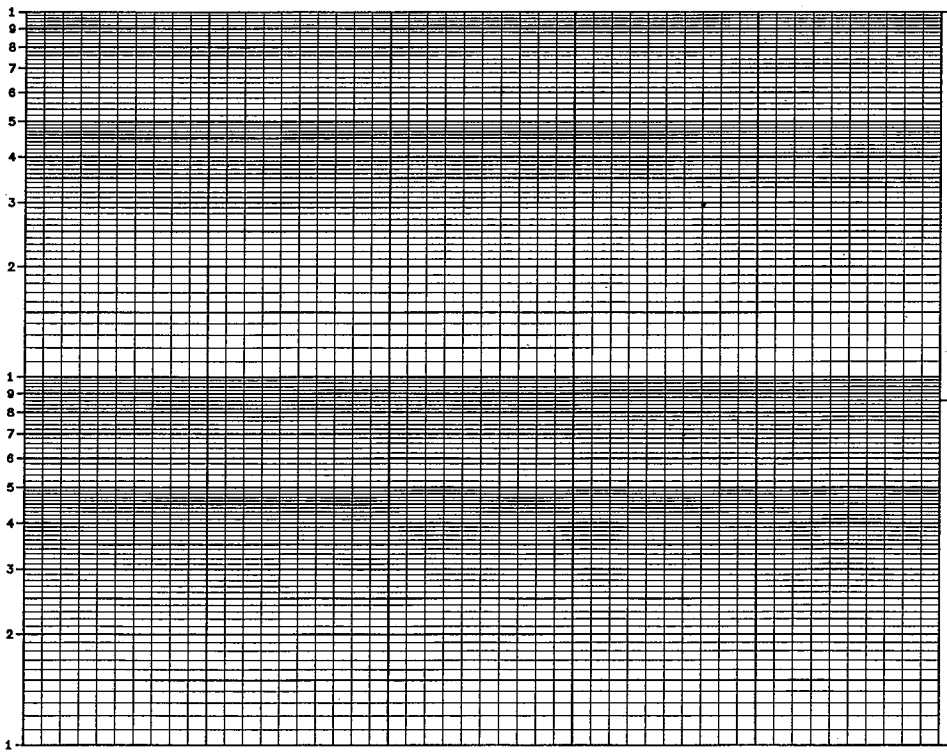
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:
See Rising Head Sheet.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

REDO

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-127D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/ TEST NO.: RIS 1,2

STATIC WATER LEVEL (Depth/Elevation): 8.70 DATE: 9/16/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

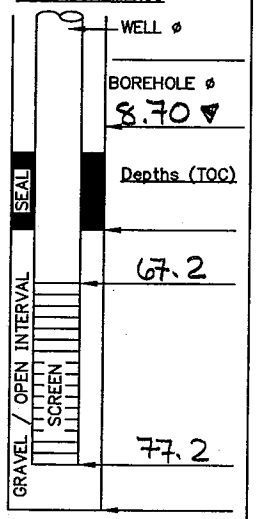
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG (2") PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.039	RIS 1	2.05	.042	RIS 2	1.89
.048	REDO	1.77	.050		1.72
.056		1.52	.057		1.50
.063		1.19	.064		1.20
.071		.92	.072		.95
.080		.62	.079		.67
.087		.41	.091		.34
.094		.24	.098		.19
.102		.11			

WELL SCHEMATIC



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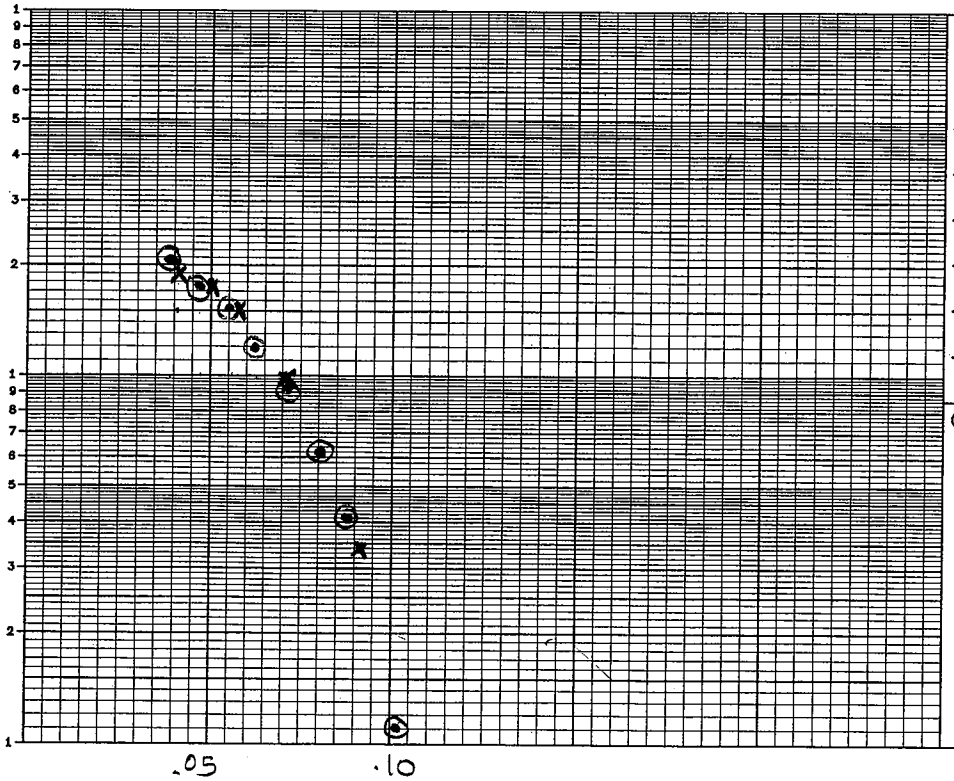


REMARKS:

CALCS,SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

REDO

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-127D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/77.2 TEST NO.: FALL 1,2

STATIC WATER LEVEL (Depth/Elevation): 8.70 DATE: 9/16/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

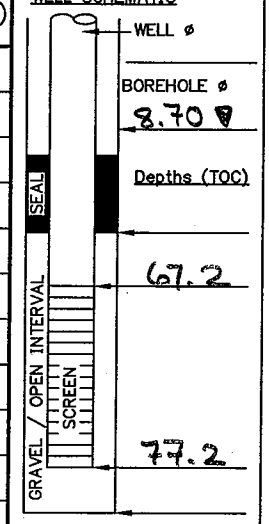
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG (2") PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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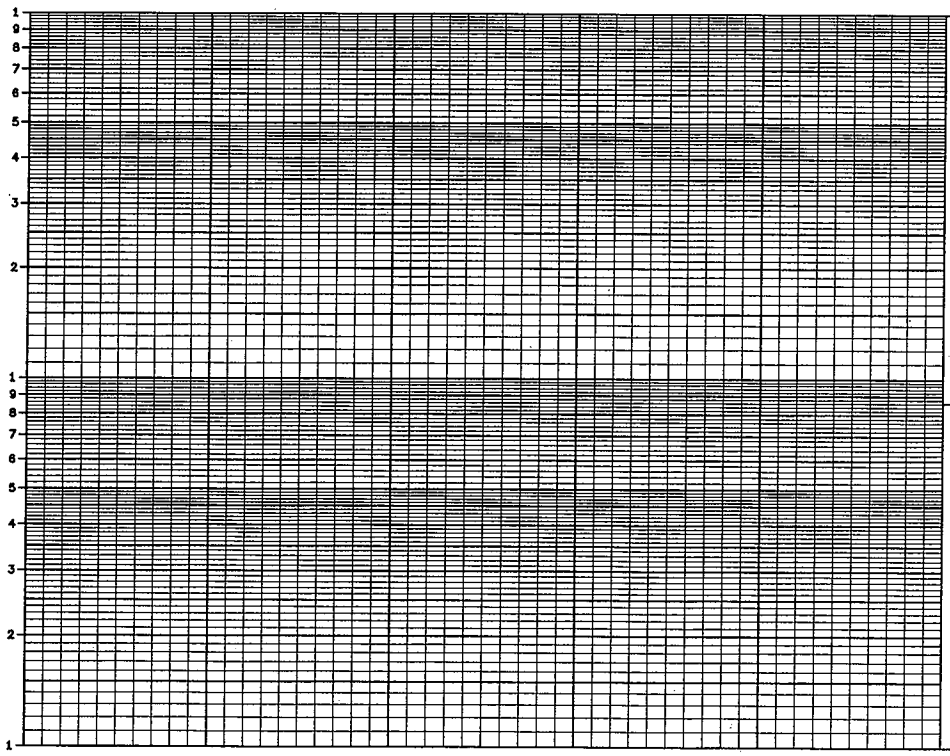


REMARKS:

XD Press 10.500

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-128S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10/19.20 TEST NO.: RS1

STATIC WATER LEVEL (Depth/Elevation): 9.28 DATE: 9/9/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

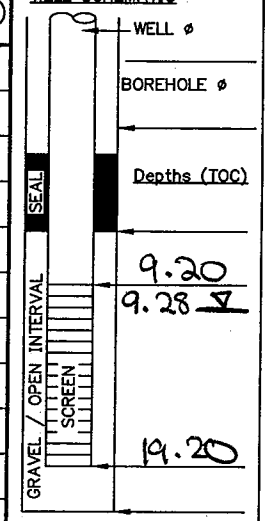
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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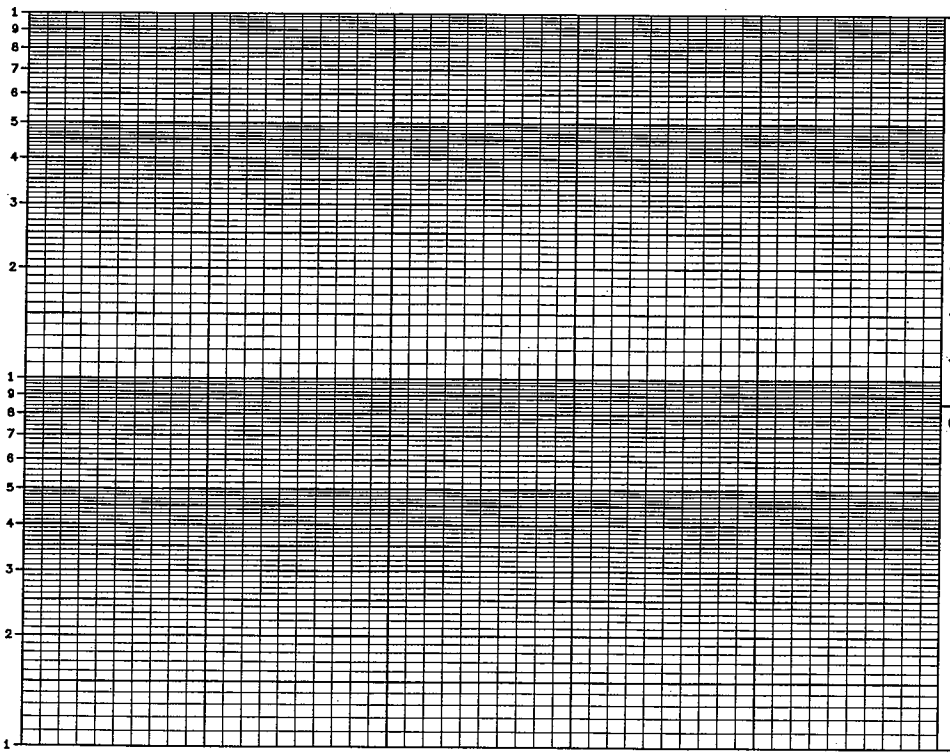


REMARKS:
See ReDos

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW12S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10/19.20 TEST NO.: FAL 4

STATIC WATER LEVEL (Depth/Elevation): 9.28 DATE: 9/9/09

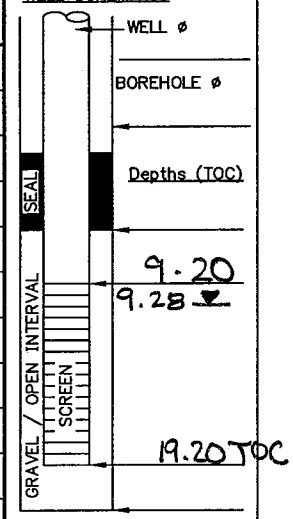
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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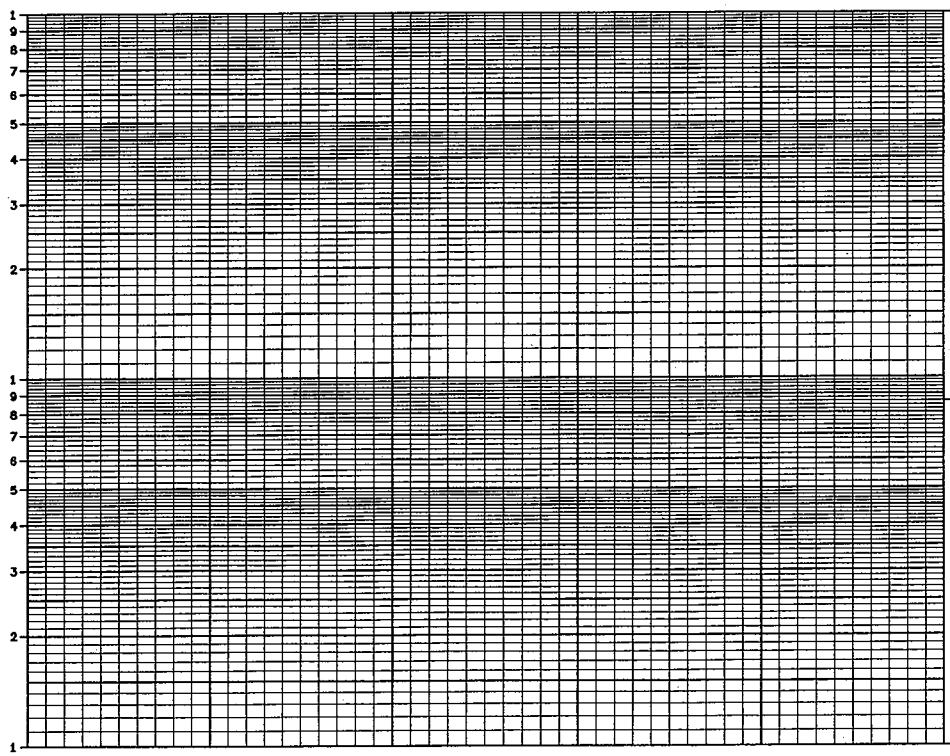


REMARKS: See Redos

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

REDO

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-12S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/19.20 TEST NO.: RIS 1,2,3

STATIC WATER LEVEL (Depth/Elevation): 9.35' DATE: 9/16/09

TEST TYPE (Rising/Falling/Constant Head): RISING 3 REDO TESTS CHECKED:

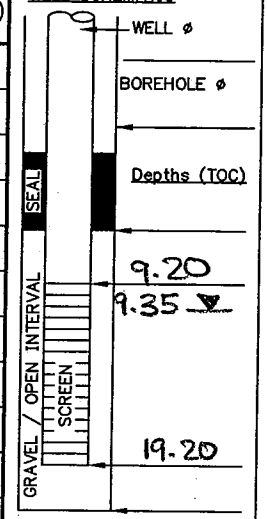
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

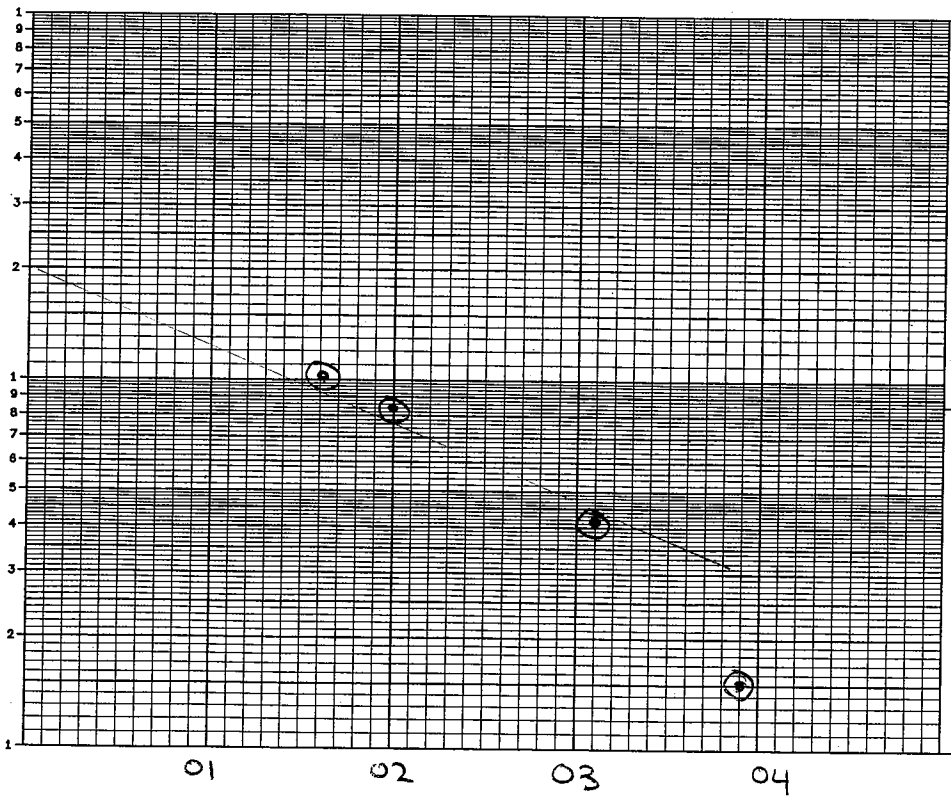
ACAD: FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
			.016	RIS 3	1.02
			.020		.84
			.031		.41
			.039		.20
			.046		.05

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

REDO

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-128S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10'/19.20 TEST NO.: FAL 1, 2

STATIC WATER LEVEL (Depth/Elevation): 9.35 DATE: 9/16/09

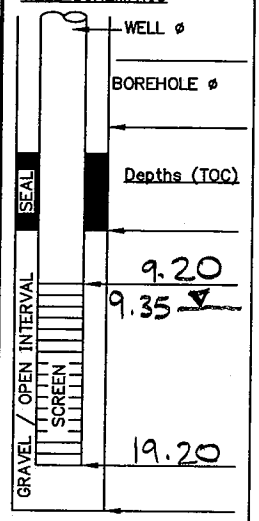
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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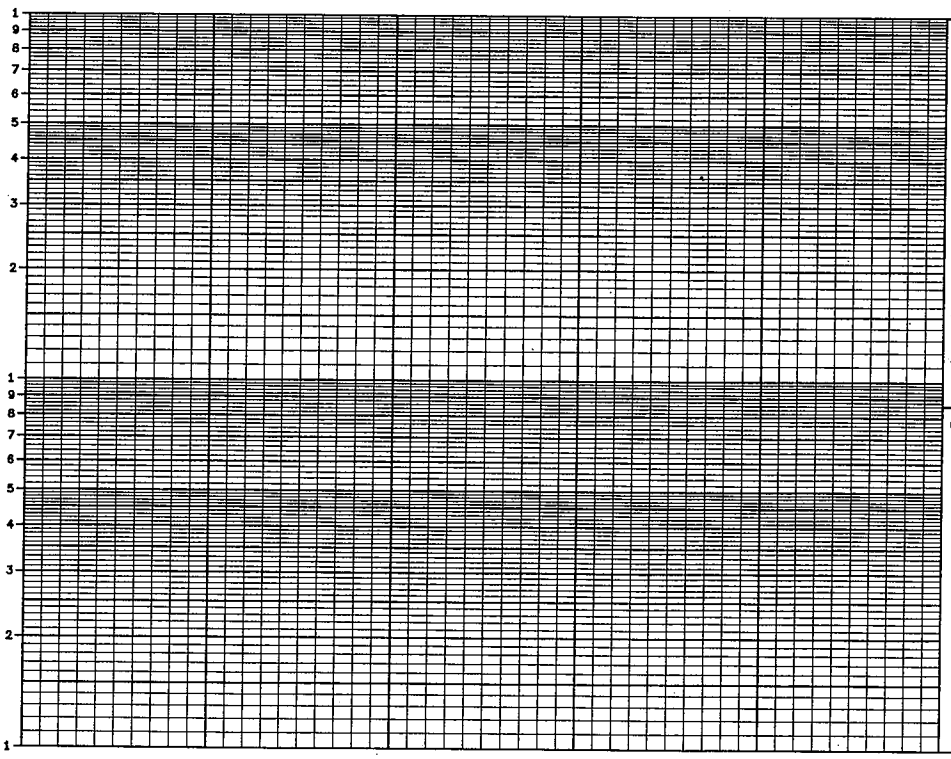


REMARKS:

CALCS, SKETCH MAPS, ETC.:

ACAD: FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-12S7

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/42 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 9.76 DATE: 9/9/09

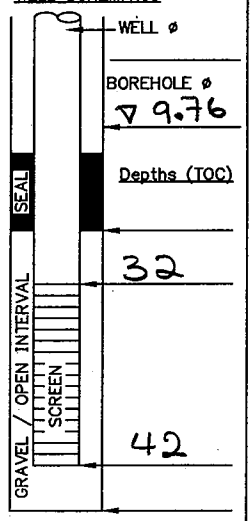
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.088	RIS1	1.09			
.096		.94			
.100		.78			
.106		.53			
.112		.27			
.119		.03			

WELL SCHEMATIC



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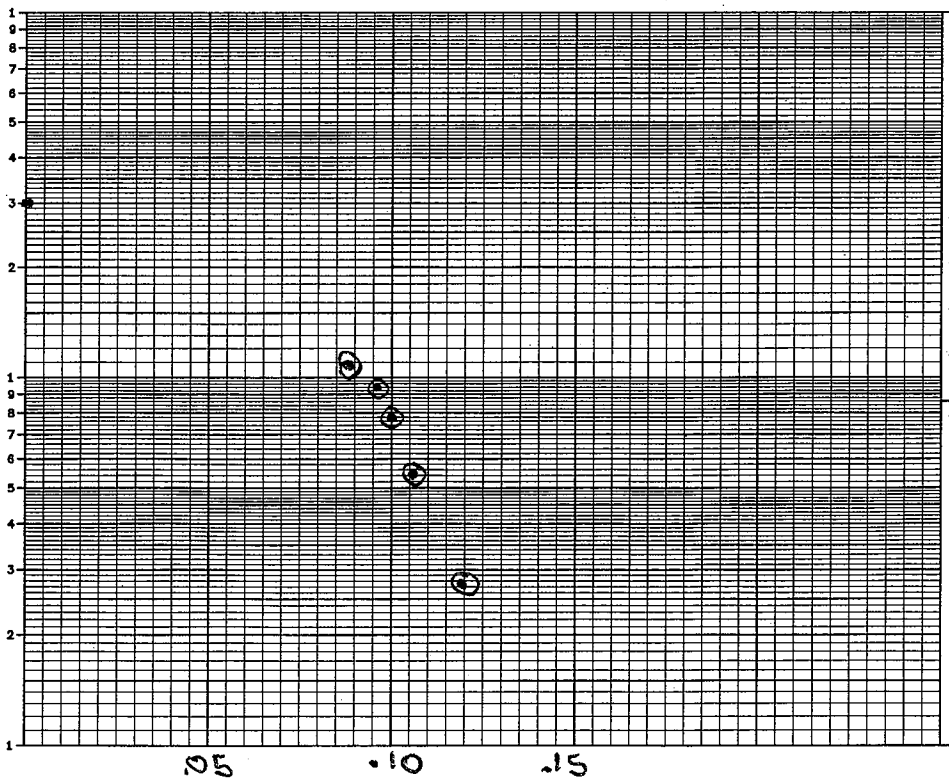


REMARKS:

FAST REC - DATA LOOKS OK.

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-128I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10'/42' TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 9.76 DATE: 9/9/09

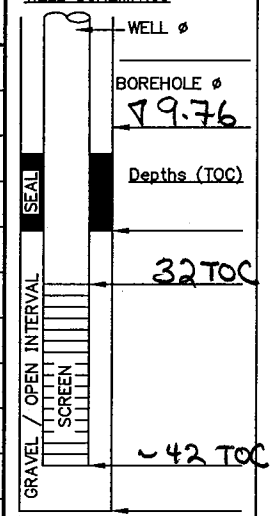
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

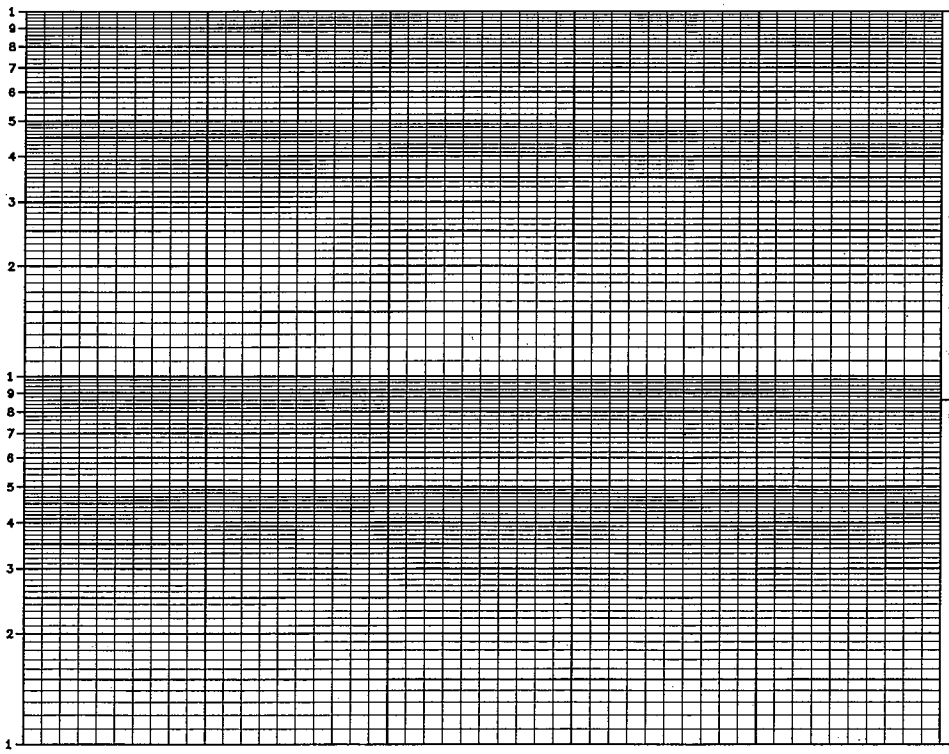
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

See Rising Head

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-128D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/70.4 TEST NO.: RIS 1

STATIC WATER LEVEL (Depth/Elevation): 9.77 DATE: 9/9/09

TEST TYPE (Rising/Falling/Constant Head): RIS CHECKED:

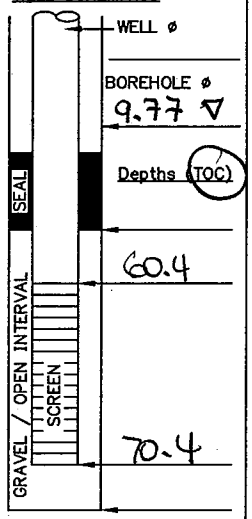
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.100		2.06			
.112		1.87			
.119		1.68			
.126		1.48			
.133		1.31			
.15		.99			
.168		.69			
.188		.53			
.211		.37			

WELL SCHEMATIC



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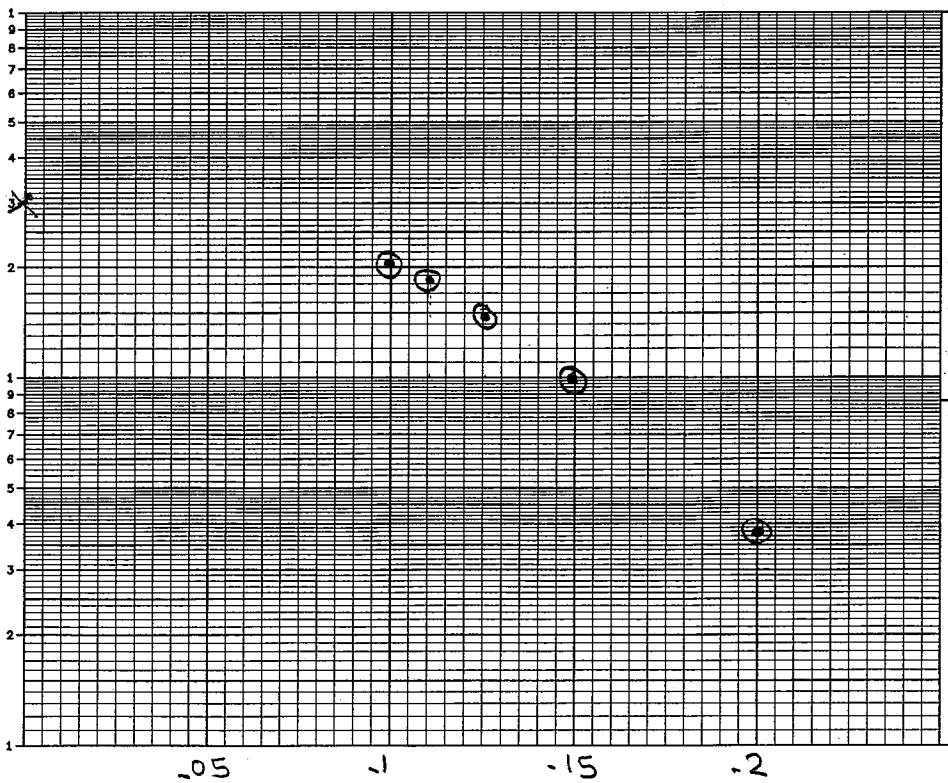


REMARKS:

GRAPH GOOD ON
WIN SITU 5
FAST REC

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-128D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10' / 70.4 TEST NO.: FAL 1

STATIC WATER LEVEL (Depth/Elevation): 9.77 DATE: 9/9/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

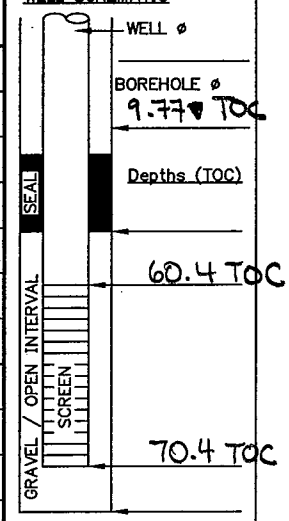
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.133	1.71				
.141	1.38				

WELL SCHEMATIC



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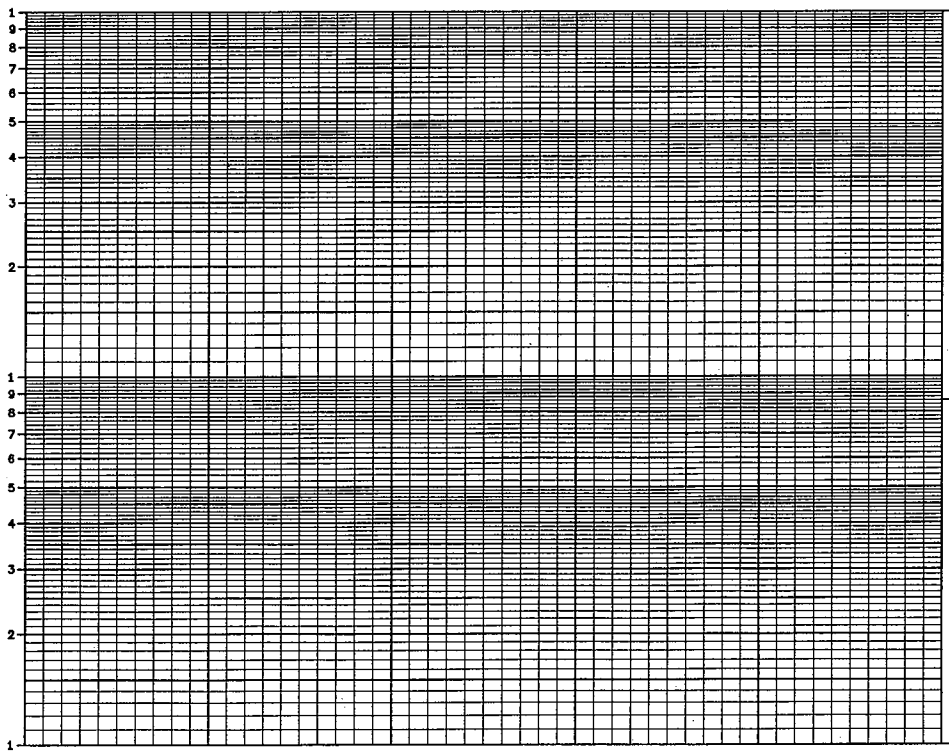


REMARKS:

Graph Good

See Rising Head

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-130S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/21.65 TEST NO.: RIS 1, 2, 3

STATIC WATER LEVEL (Depth/Elevation): 13.62 DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

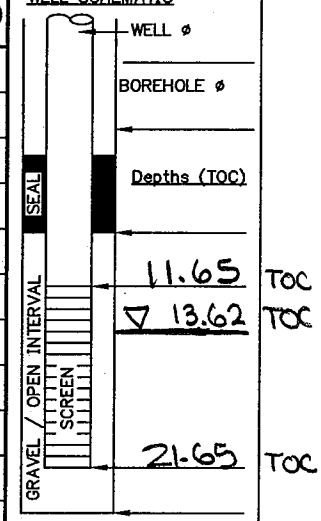
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC SLUG 2" Φ PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

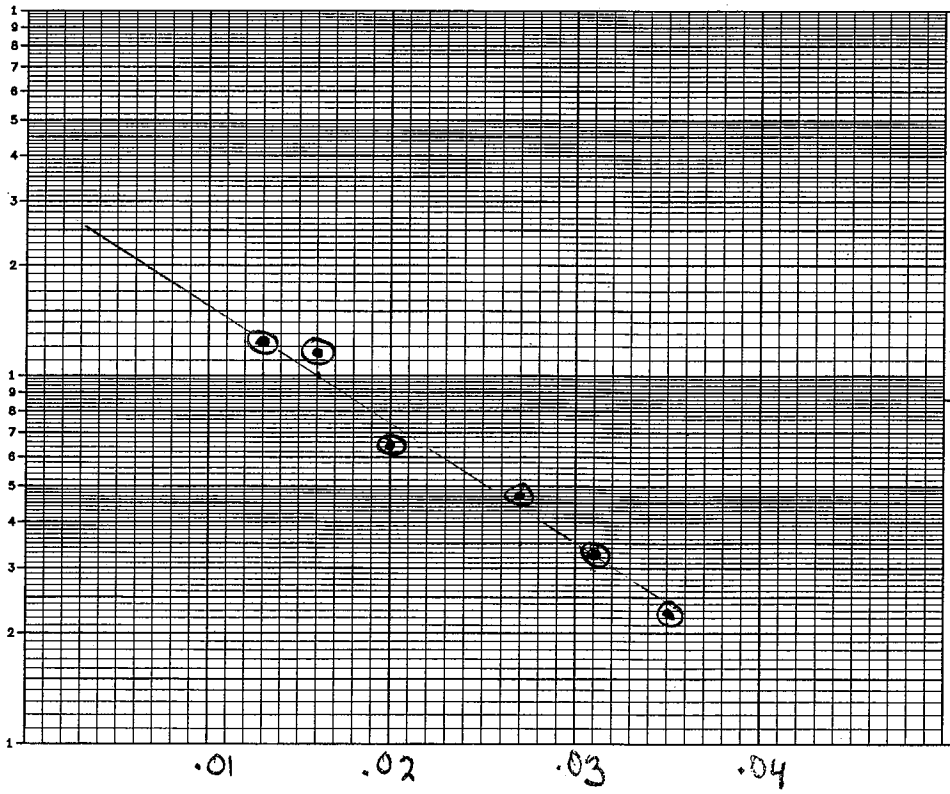
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
			.013	RIS3	1.23
			.016		1.17
			.020		.63
			.027		.43
			.031		.35
			.035		.23
			.038		.14
			.042		.08

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

RISING ONLY.

SJC

2"Φ well

8" Hole

10' SCREEN

CALCS, SKETCH MAPS, ETC.:

r (ft) = .083'

R = .333'

L = 8.03'

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-130I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/48.15 TEST NO.: RIS 1,2

STATIC WATER LEVEL (Depth/Elevation): 13.40 DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

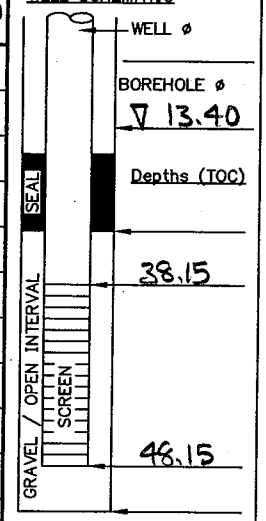
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG 2" PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

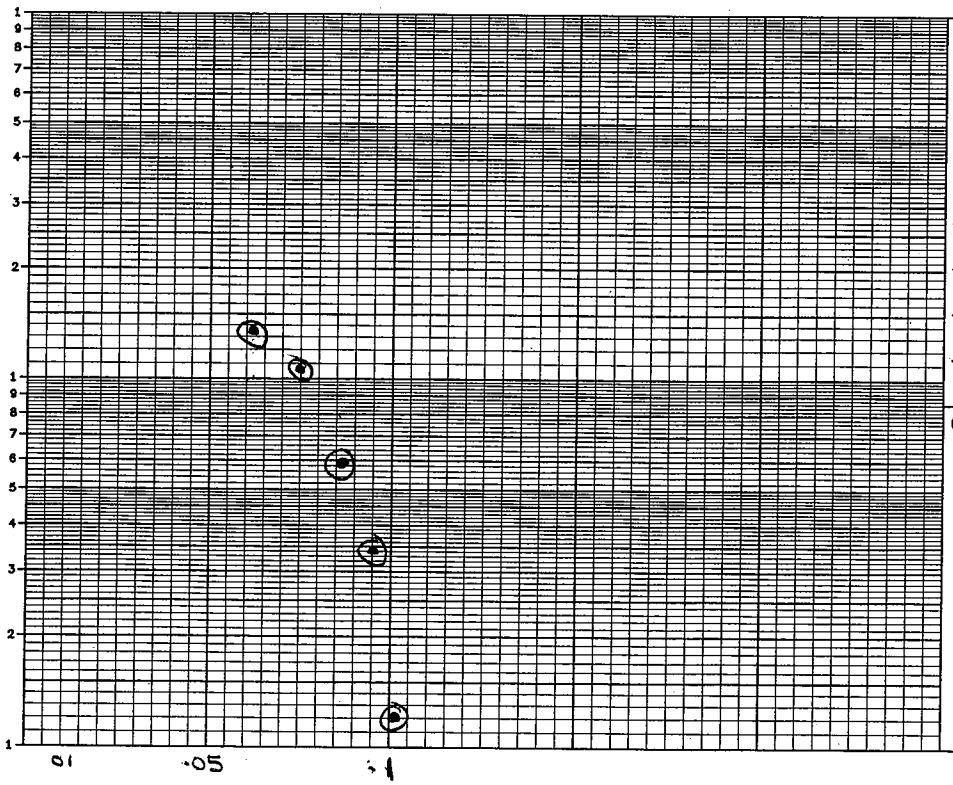
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
			.063	RIS 2	1.36
			.075		1.05
			.079		.89
			.086		.58
			.090		.41
			.094		.29
			.102		.12

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS, SKETCH MAPS, ETC.:

r = .083'

R = .333'

L = 10'

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-13DI

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/48.15 TEST NO.: FAL 1,2

STATIC WATER LEVEL (Depth/Elevation): 13.40 DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

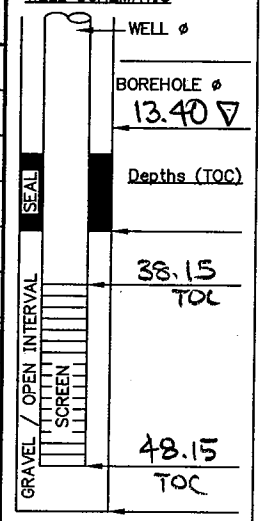
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG (2"Φ) PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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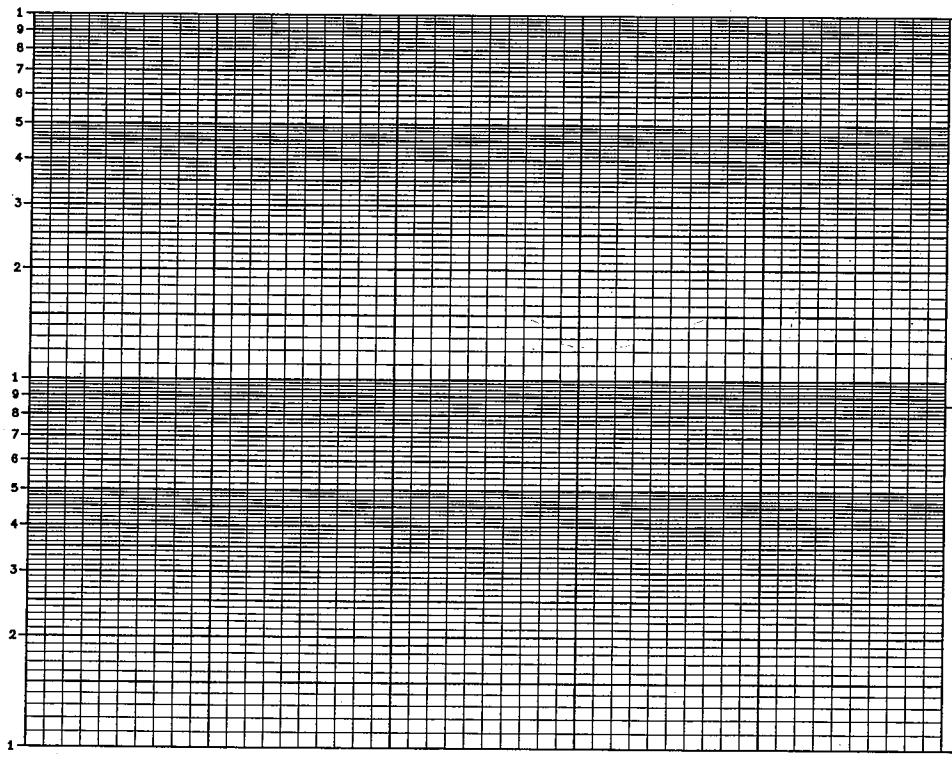


REMARKS:

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-131-S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2"Φ SCREEN LENGTH/DEPTH: 10'/16.30 TEST NO.: RIS 1,2

STATIC WATER LEVEL (Depth/Elevation): 8.88' TOC DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

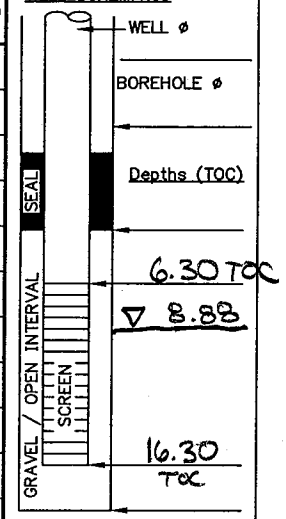
METHOD OF INDUCING WATER LEVEL CHANGE: 2 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.017	RIS 1	1.14			
.021		.65			
.025		.45			
.037		.35			
.042		.20			
.046		.12			
.054		.06			

WELL SCHEMATIC



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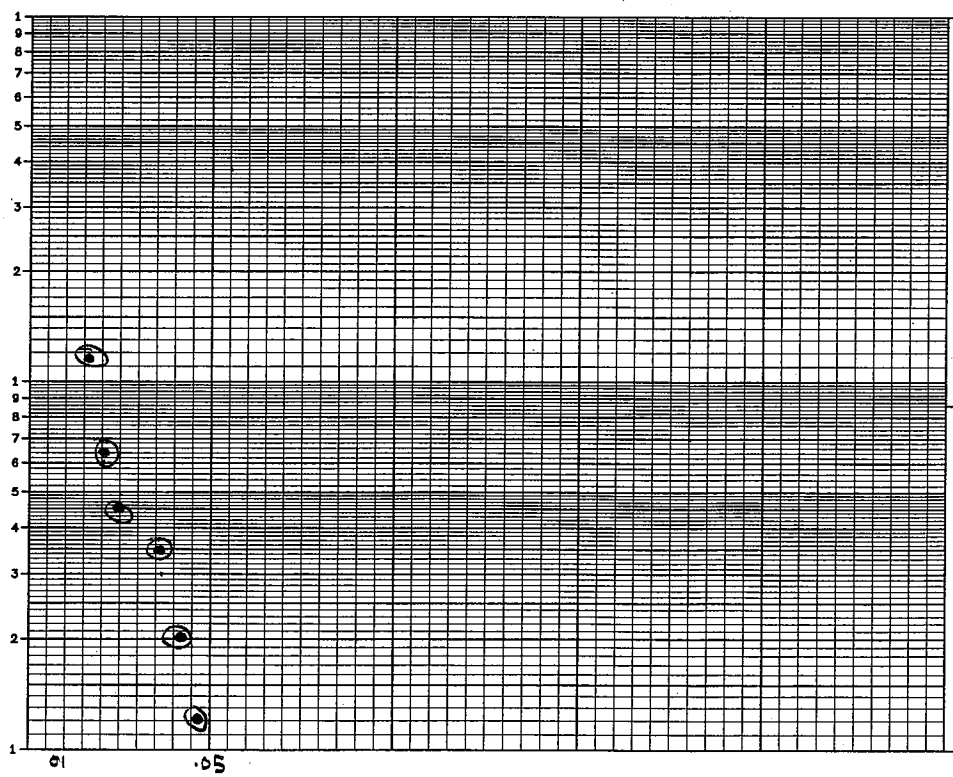


REMARKS:

DO RISING ONLY

SJC

Press 3.172

CALCS,SKETCH MAPS, ETC.:

r = .083'

R = .333

L = 7.42

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-131-I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10/41.5 TEST NO.: FAL 1, 2

STATIC WATER LEVEL (Depth/Elevation): 8.53' DATE: 9/15/09

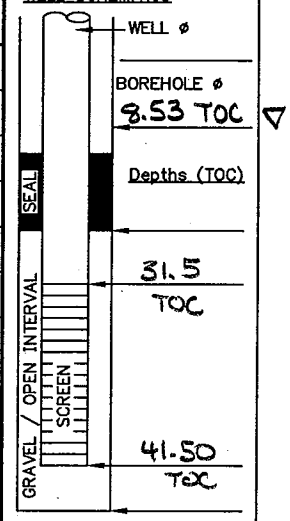
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



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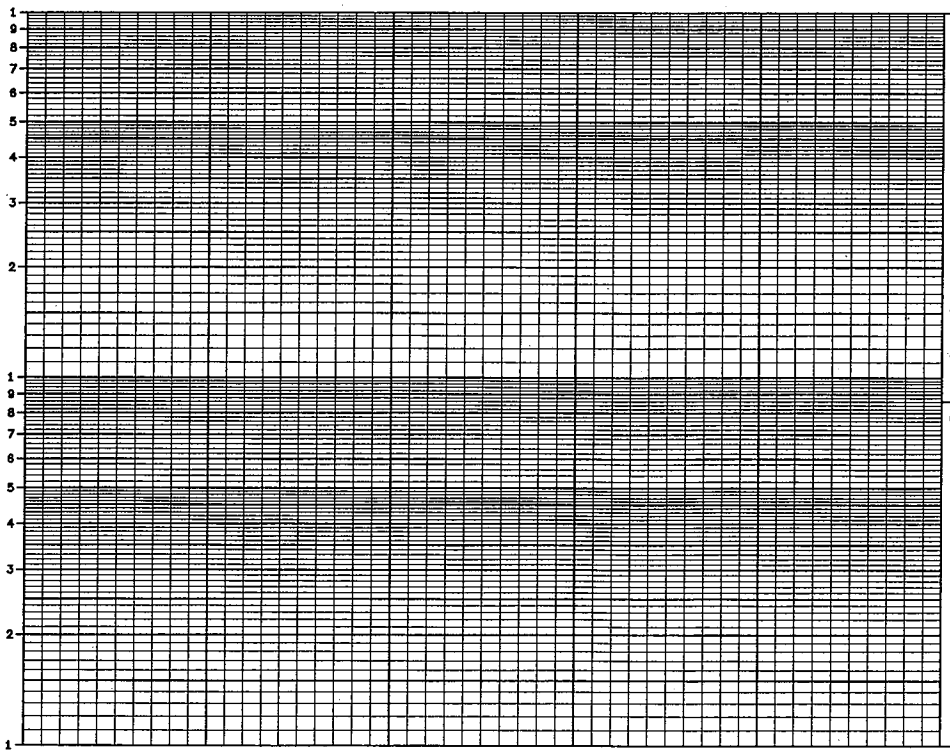


REMARKS:

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-131I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/41.5 TEST NO.: RIS 1, 2

STATIC WATER LEVEL (Depth/Elevation): 8.53 DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): RISING 1, 2 CHECKED:

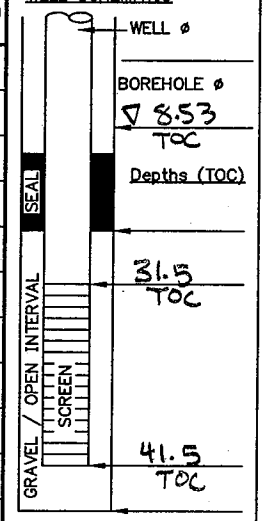
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

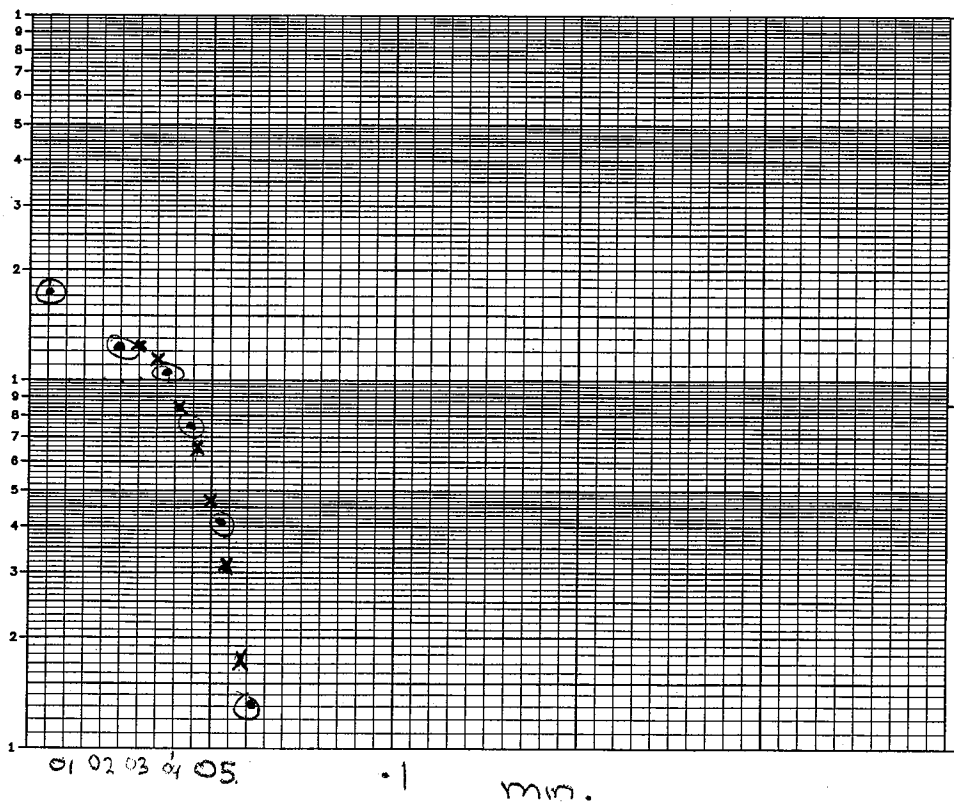
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.005	RIS 1	1.77	.031	RIS2	1.24
.031		1.24	.035		1.15
.038		1.06	.042		.83
.046		.73	.046		.67
.053		.41	.05		.47
.057		.26	.054		.32
.061		.13	.058		.17
.064		.04	.063		.02

WELL SCHEMATIC



Indicate SWL Depth on Drawing



REMARKS:

~ 0915 @ I well.

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-131-D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/71.90 TEST NO.: FAL 1 & 2

STATIC WATER LEVEL (Depth/Elevation): 7.90' DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

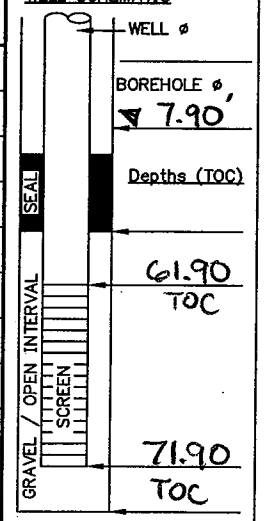
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

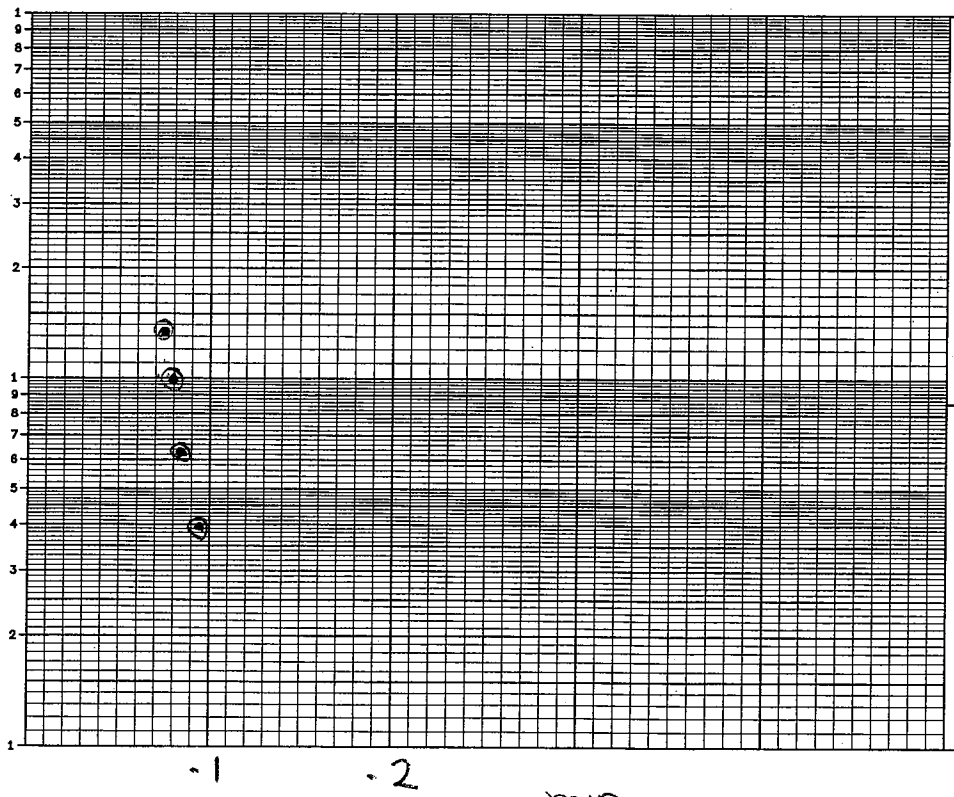
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.075		-1.33			
.079		-.99			
.083		-.62			
.096		-.39			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

0830HRS START FAL 1

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-131-D

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/71.90 TEST NO.: RIS 1&2

STATIC WATER LEVEL (Depth/Elevation): 7.90' DATE: 9-15-09

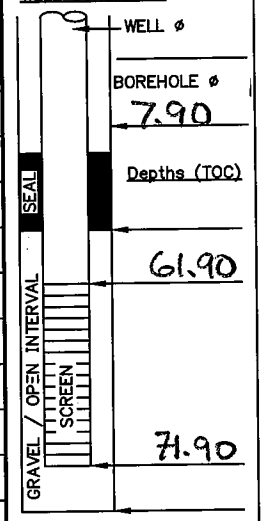
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2" SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
			.058	RIS 2	1.67
			.062		1.47
			.066		1.24
			.070		.99
			.073		.76
			.077		.50
			.081		.27
			.084		.04

WELL SCHEMATIC



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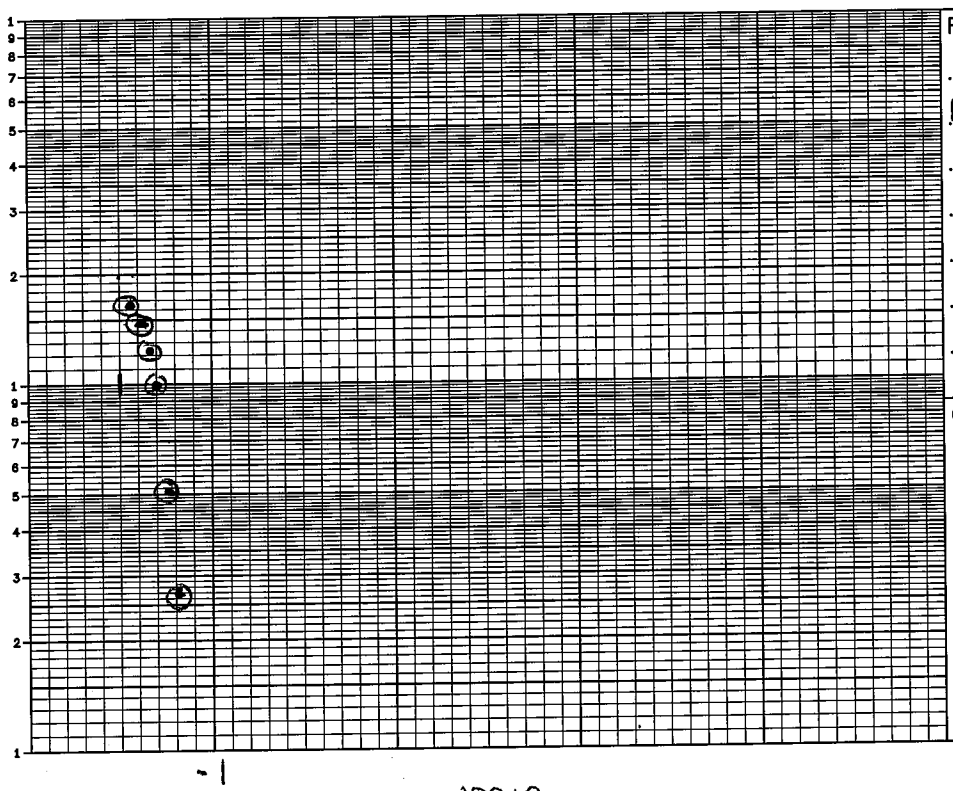


REMARKS:

RIS 2 @ 0855 ±

CALCS, SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-132S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/16.90 TEST NO.: RIS 1, 2

STATIC WATER LEVEL (Depth/Elevation): 6.15 DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

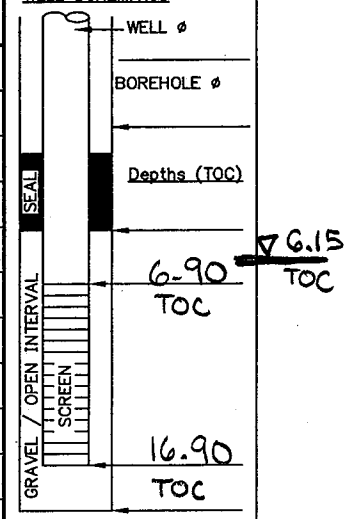
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG (2") PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

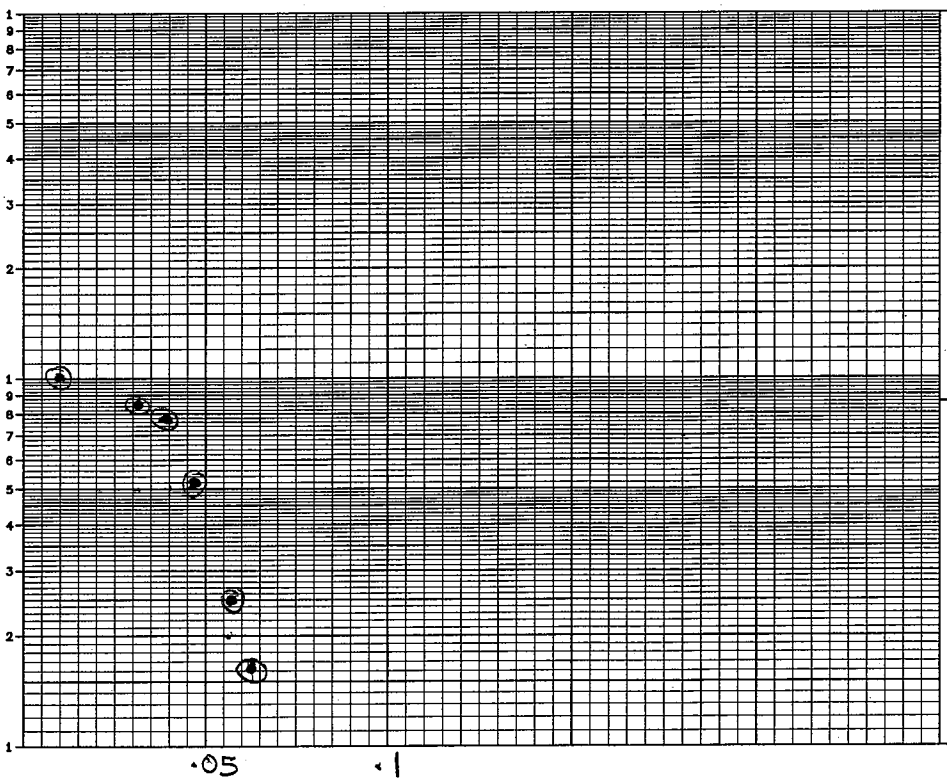
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.008	RIS 1	1.00			
.032		.85			
.039		.79			
.046		.51			
.055		.25			
.062		.16			
.07		.09			

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-132S

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/16.90 TEST NO.: FAL 1,2

STATIC WATER LEVEL (Depth/Elevation): 6.15 DATE: 9/15/09

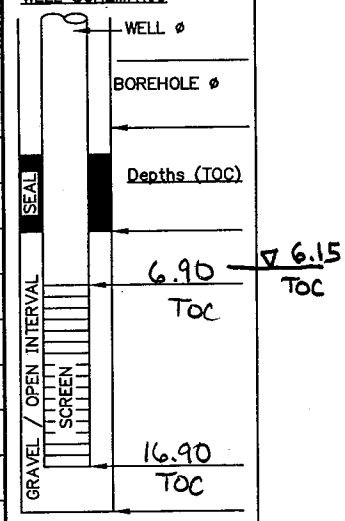
TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG (2") PAGE 1 OF 1

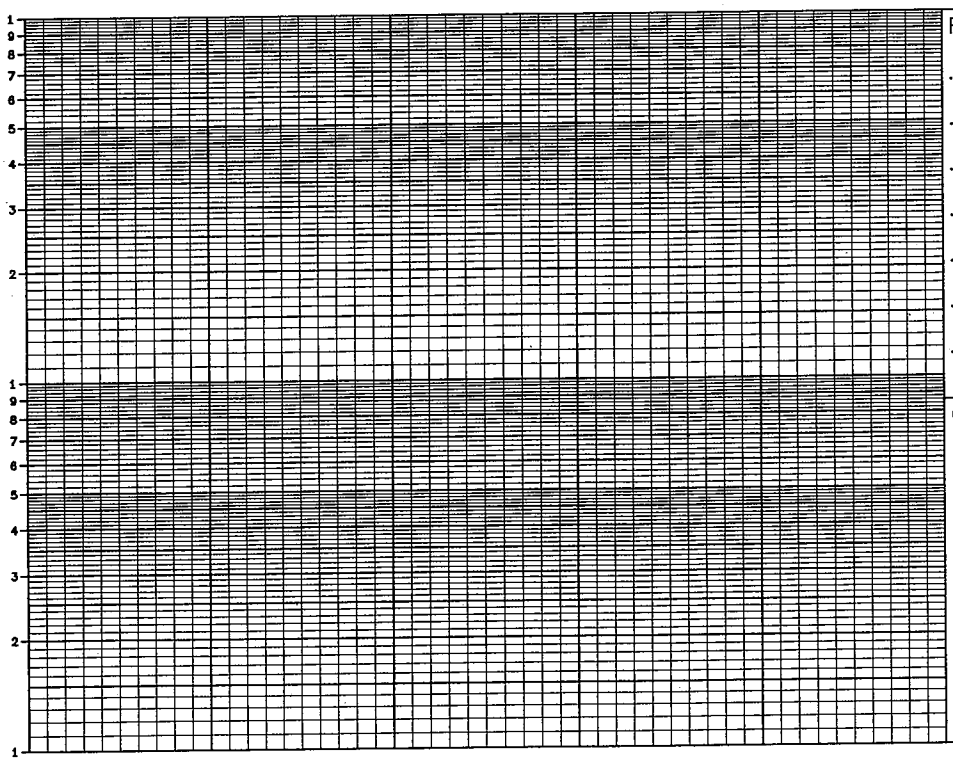
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-132I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/40.1 TEST NO.: RIS 1, 2

STATIC WATER LEVEL (Depth/Elevation): 6.18 DATE: 9/15/09

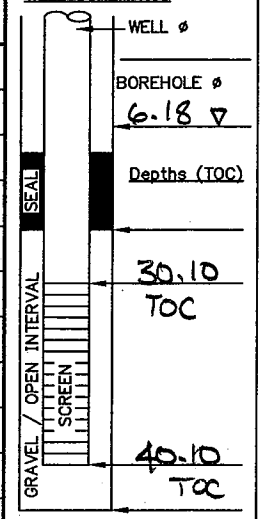
TEST TYPE (Rising/Falling/Constant Head): RISING CHECKED:

METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC 2 IN SLUG PAGE 1 OF 1

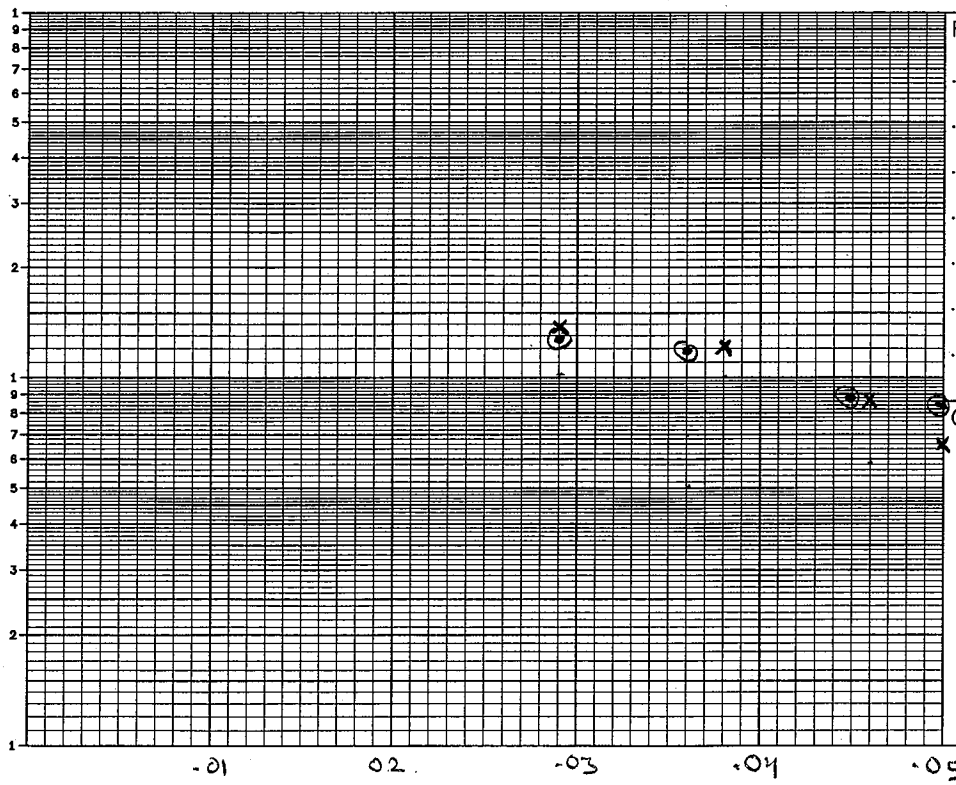
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
.029	RIS 1 •	1.28	.029	RIS 2 ×	1.35
.036		1.19	.038		1.21
.045		.88	.046		.87
.052		.58	.05		.67
.056		.42	.059		.32
.064		.15	.063		.19

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS,SKETCH MAPS, ETC.:

ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

Tetra Tech NUS, Inc.

PROJECT NAME: NWIRP CALVERTON WELL/BORING NO.: SA-MW-132I

PROJECT NO.: 112G01655 GEOLOGIST: CONTI

WELL DIAMETER: 2" SCREEN LENGTH/DEPTH: 10'/40.1 TEST NO.: FAL 1, 2

STATIC WATER LEVEL (Depth/Elevation): 6.18 DATE: 9/15/09

TEST TYPE (Rising/Falling/Constant Head): FALLING CHECKED:

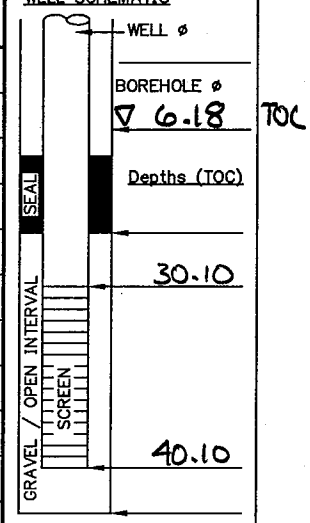
METHOD OF INDUCING WATER LEVEL CHANGE: 3 SEC SLUG PAGE 1 OF 1

REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TOC

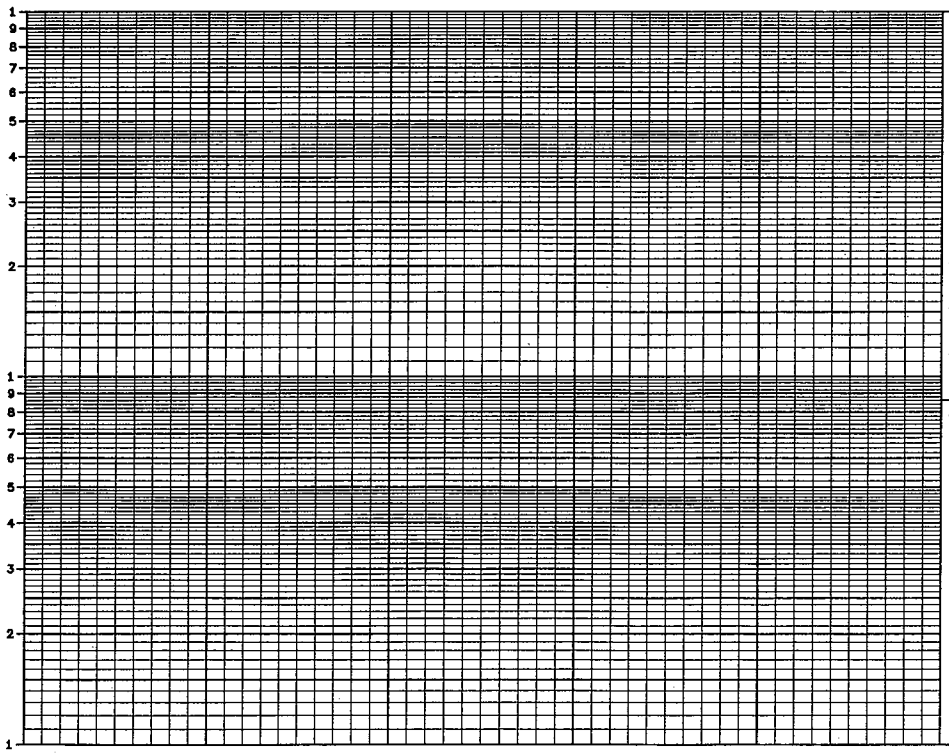
ACAD:FORM_HYDCONTST.dwg 07/06/99 INL

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)

WELL SCHEMATIC



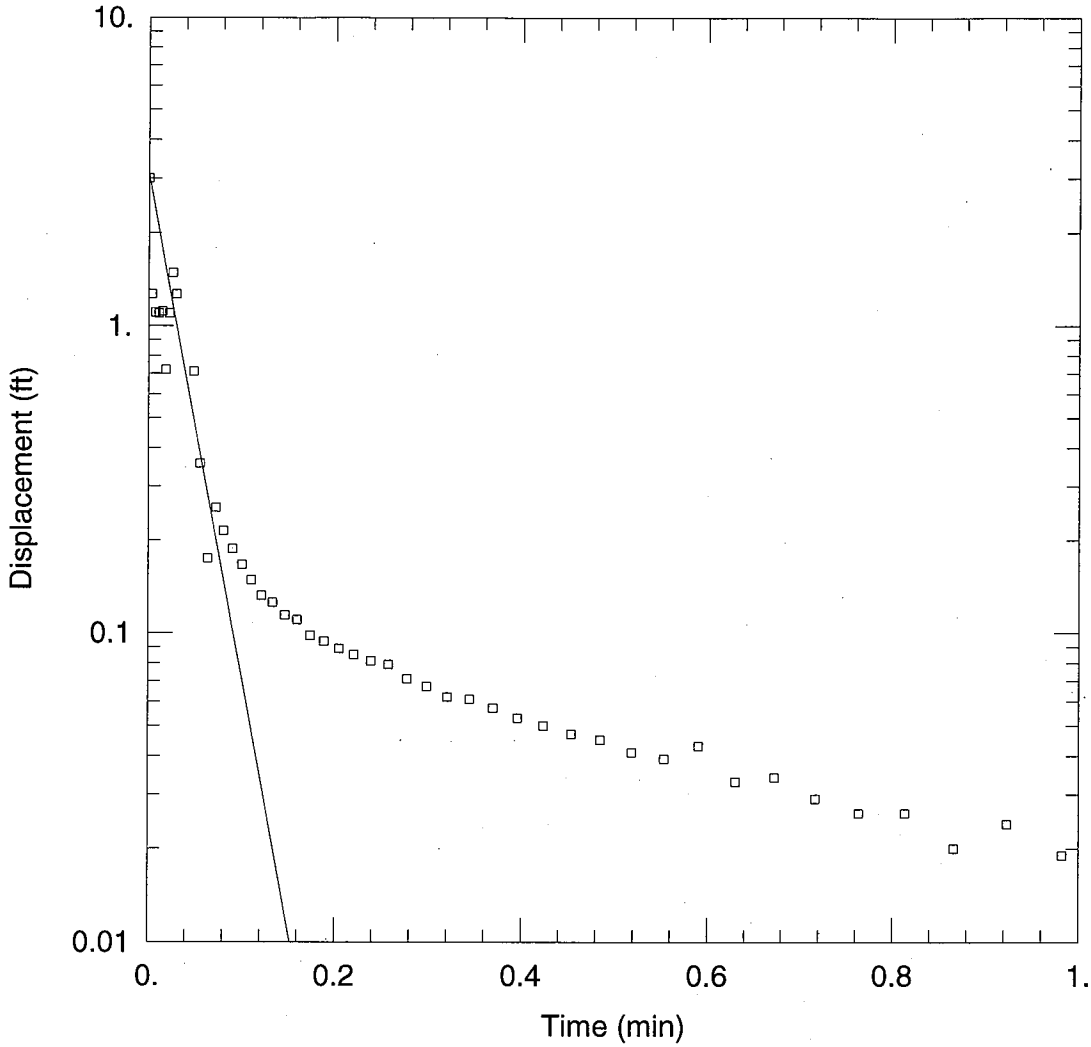
▽ Indicate SWL Depth on Drawing



REMARKS:

~1145

CALCS, SKETCH MAPS, ETC.:



FC-MW-01S - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-01S_Fall1.aqt
Date: 01/05/10 Time: 16:53:45

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-01S
Test Date: 9/14/09

AQUIFER DATA

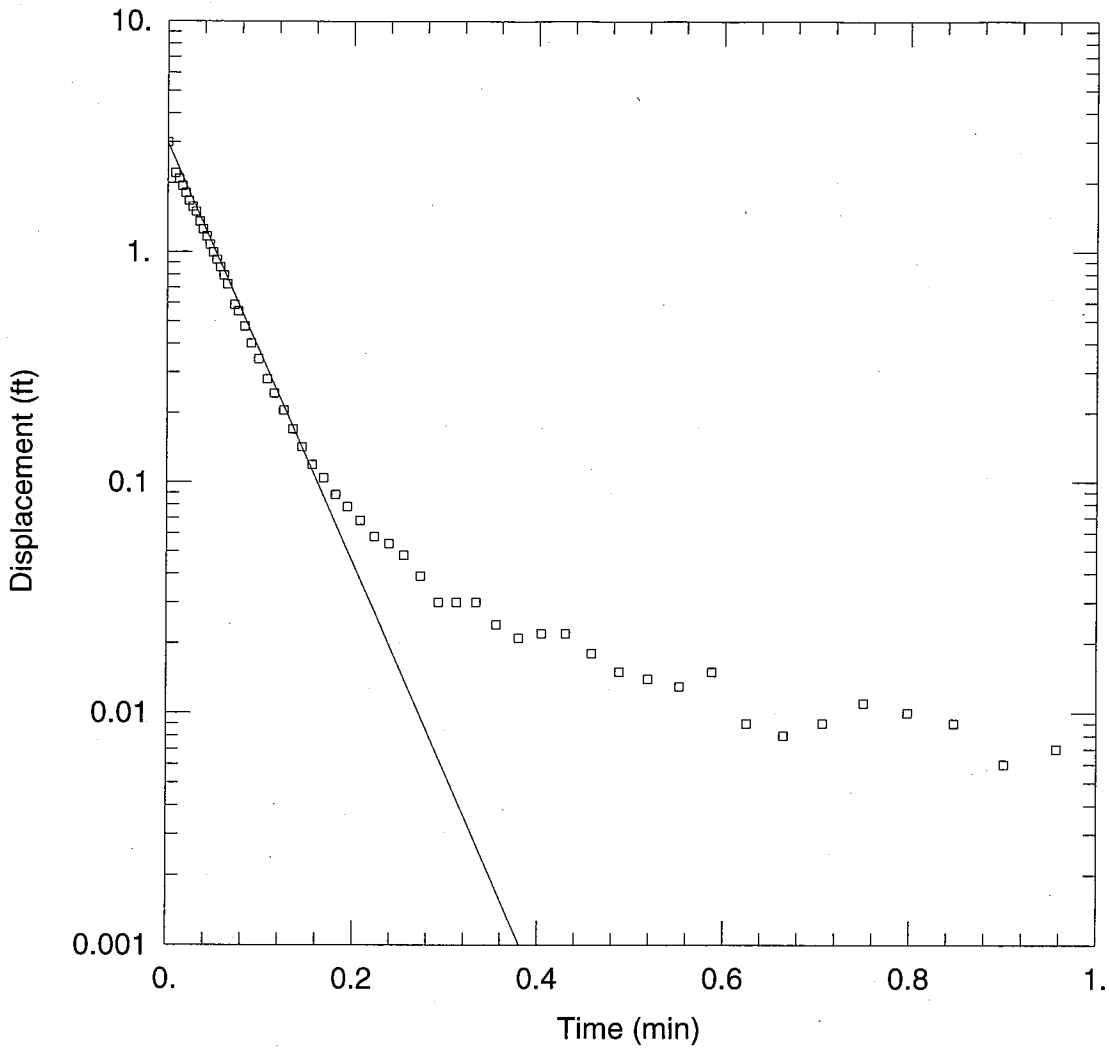
Saturated Thickness: 71.09 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-01S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 7.8 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 7.8 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 433.6 ft/day
y0 = 3.084 ft



FC-MW-01S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-01S_Rise1.aqt
Date: 01/05/10 Time: 16:53:59

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-01S
Test Date: 9/14/09

AQUIFER DATA

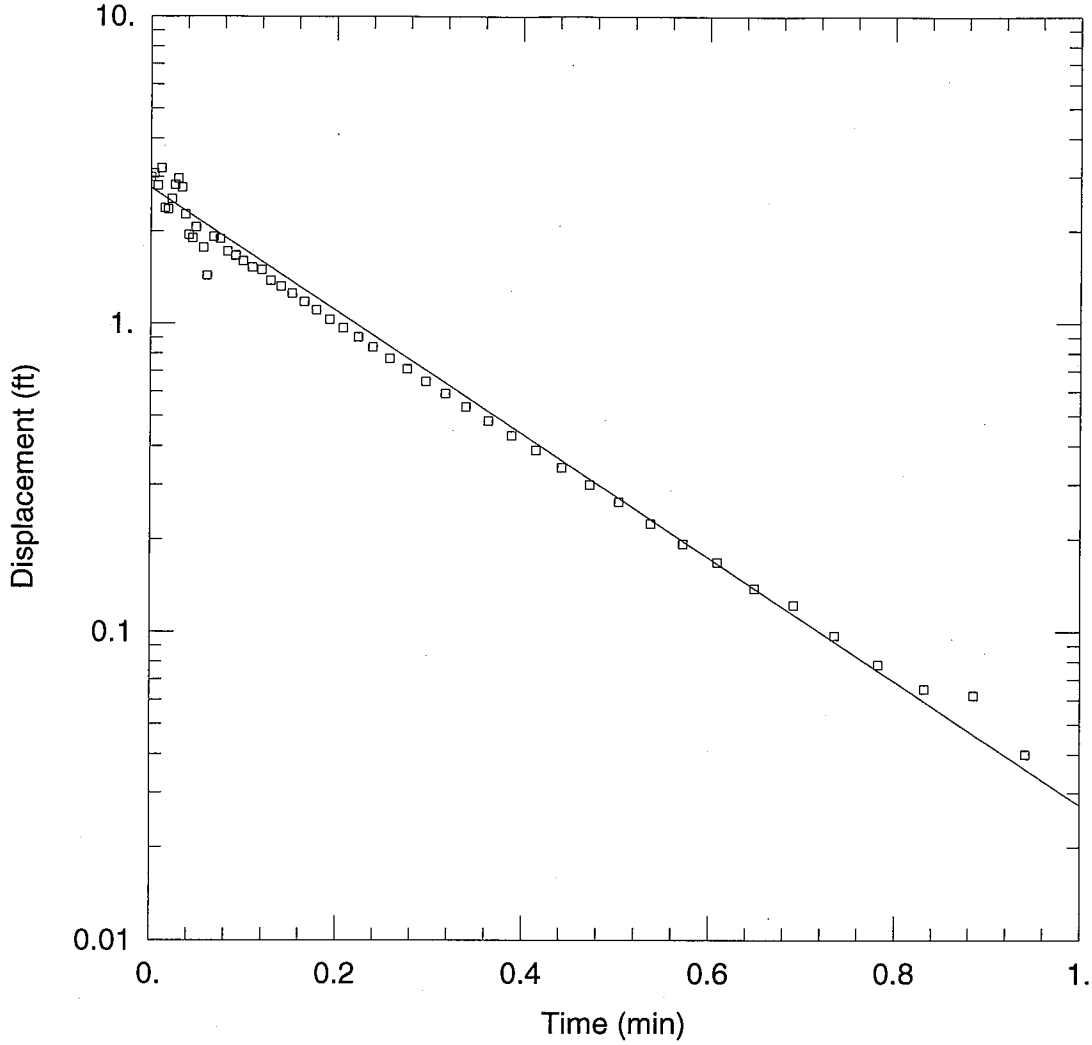
Saturated Thickness: 71.09 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-01S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 7.8 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 7.8 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 242.5 ft/day
y0 = 2.98 ft



FC-MW-01I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-01I_Fall1.aqt
Date: 01/05/10 Time: 16:53:04

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-01I
Test Date: 9/14/09

AQUIFER DATA

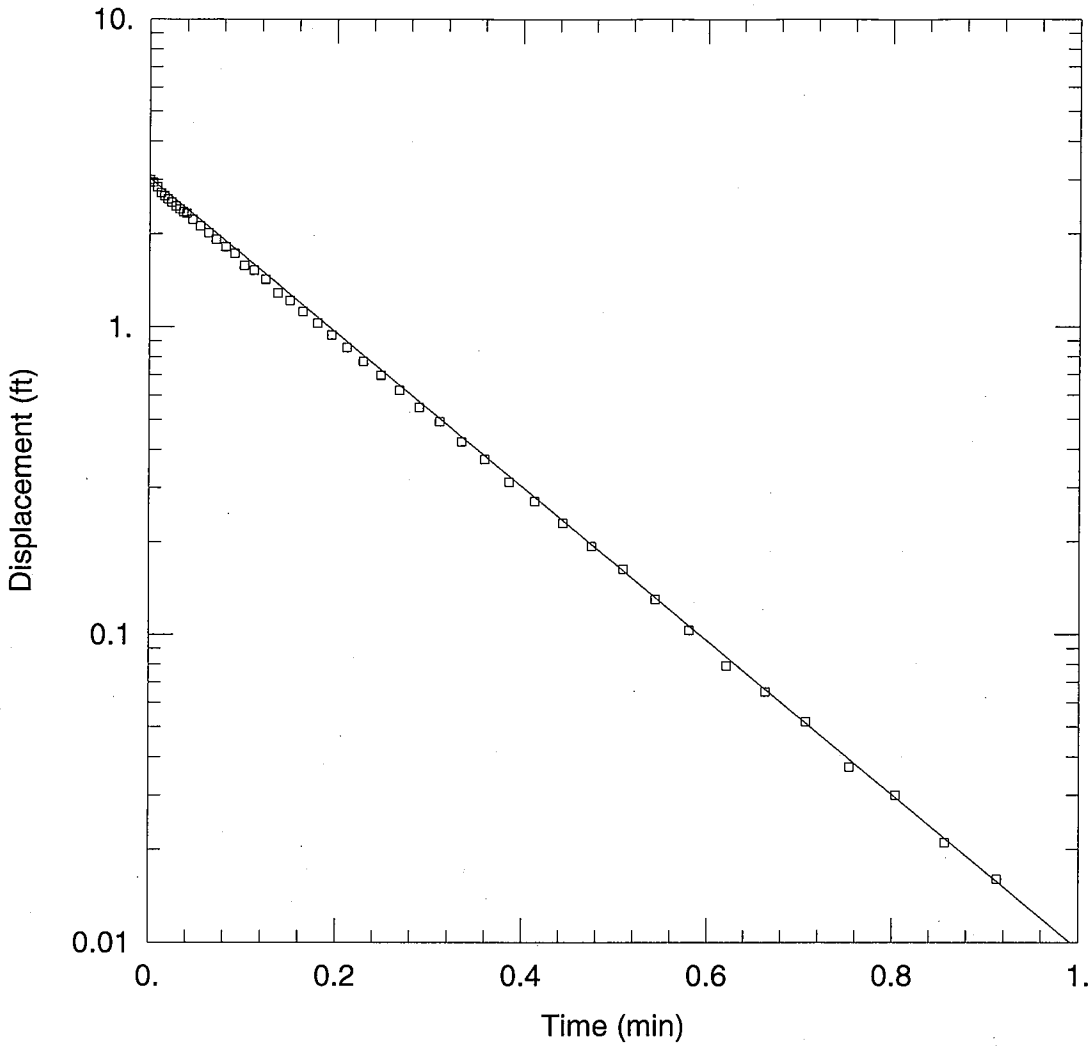
Saturated Thickness: 71.29 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-01I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 48.79 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 48.79 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 76.25 ft/day
y0 = 2.763 ft



FC-MW-01I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-01I_Rise1.aqt
Date: 01/05/10 Time: 16:53:29

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-01I
Test Date: 9/14/09

AQUIFER DATA

Saturated Thickness: 71.29 ft
Anisotropy Ratio (Kz/Kr): 1.

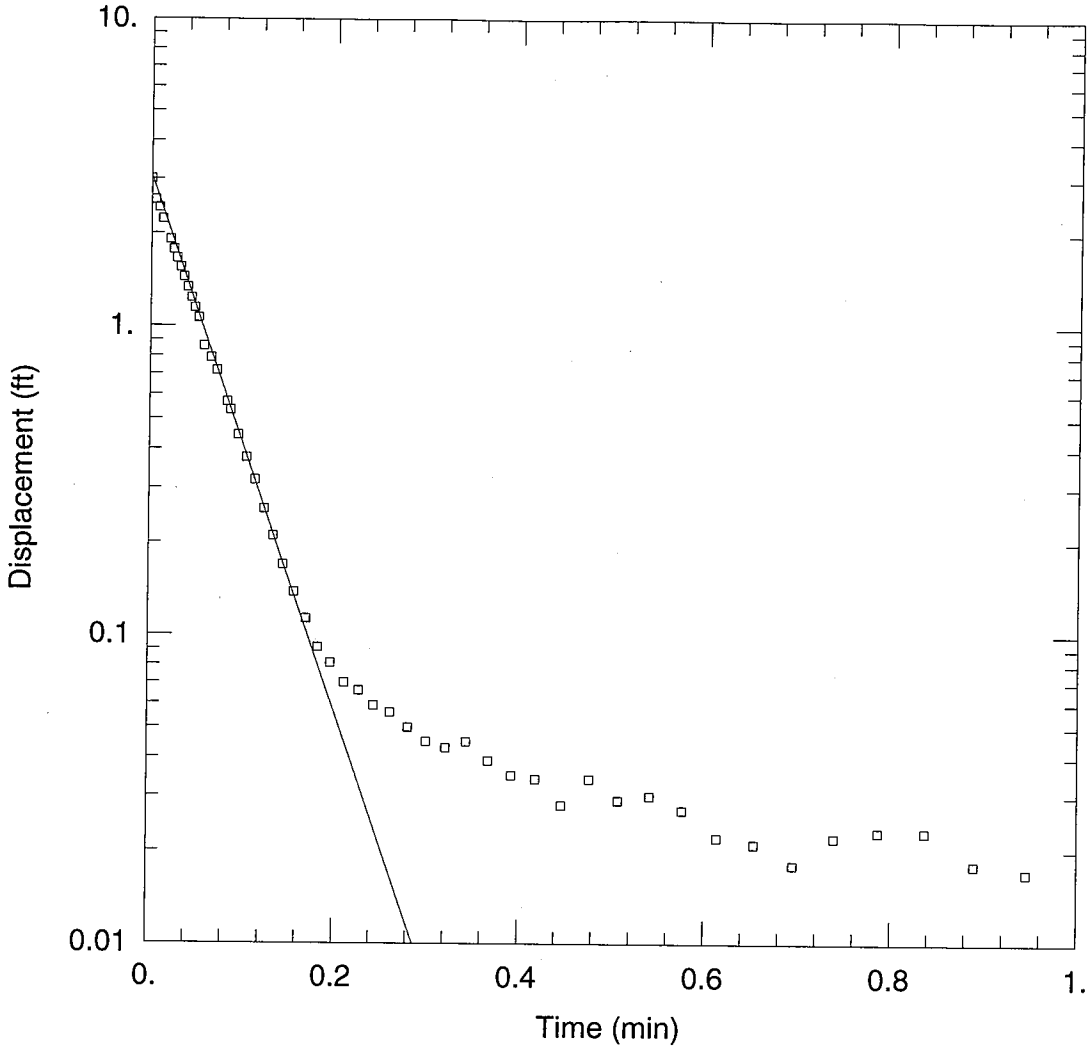
WELL DATA (FC-MW-01I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 48.79 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 48.79 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 95.17 ft/day
y0 = 3.023 ft



FC-MW-04S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-04S_Rise1.aqt
Date: 01/05/10 Time: 16:54:42

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-04S
Test Date: 9/14/09

AQUIFER DATA

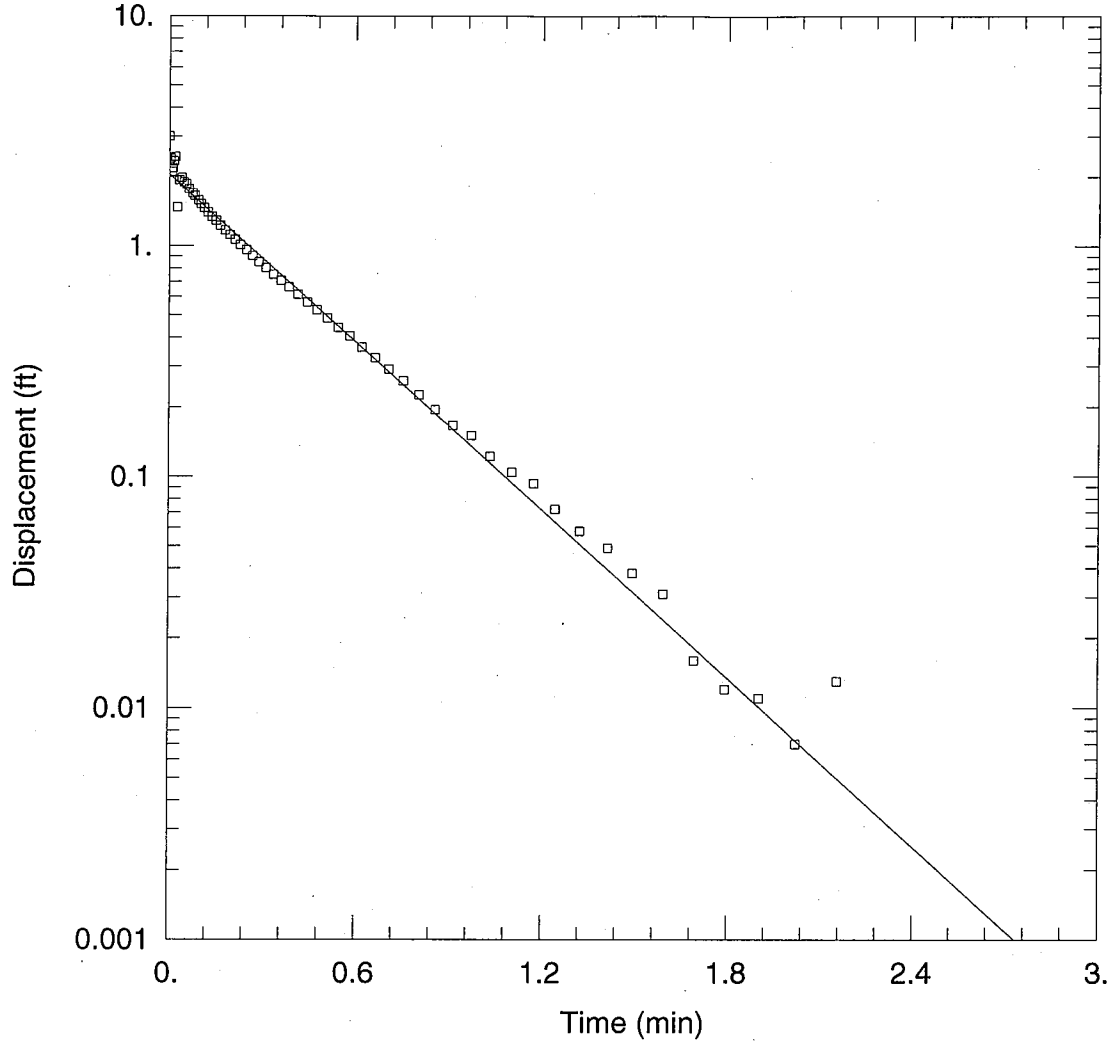
Saturated Thickness: 72.73 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-04S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 7.84 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 7.84 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 229.9 ft/day
y0 = 3.061 ft



FC-MW-04I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-04I_Fall1.aqt
Date: 01/05/10 Time: 16:54:20

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-04I
Test Date: 9/14/09

AQUIFER DATA

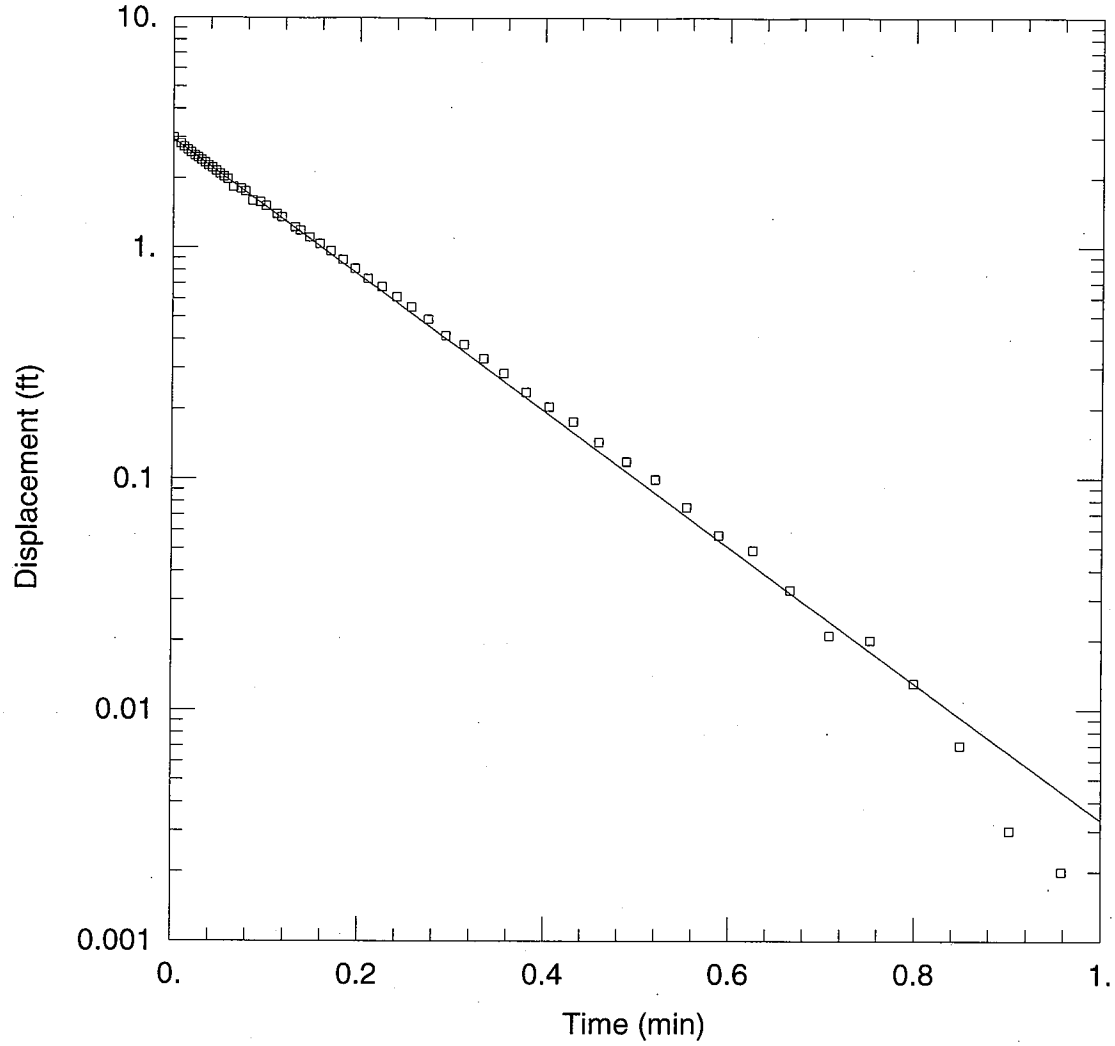
Saturated Thickness: 72.8 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-04I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 44.1 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 44.1 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 45.02 ft/day
y0 = 2.036 ft



FC-MW-04I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-04I_Rise1.aqt
Date: 01/05/10 Time: 16:54:29

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-04I
Test Date: 9/14/09

AQUIFER DATA

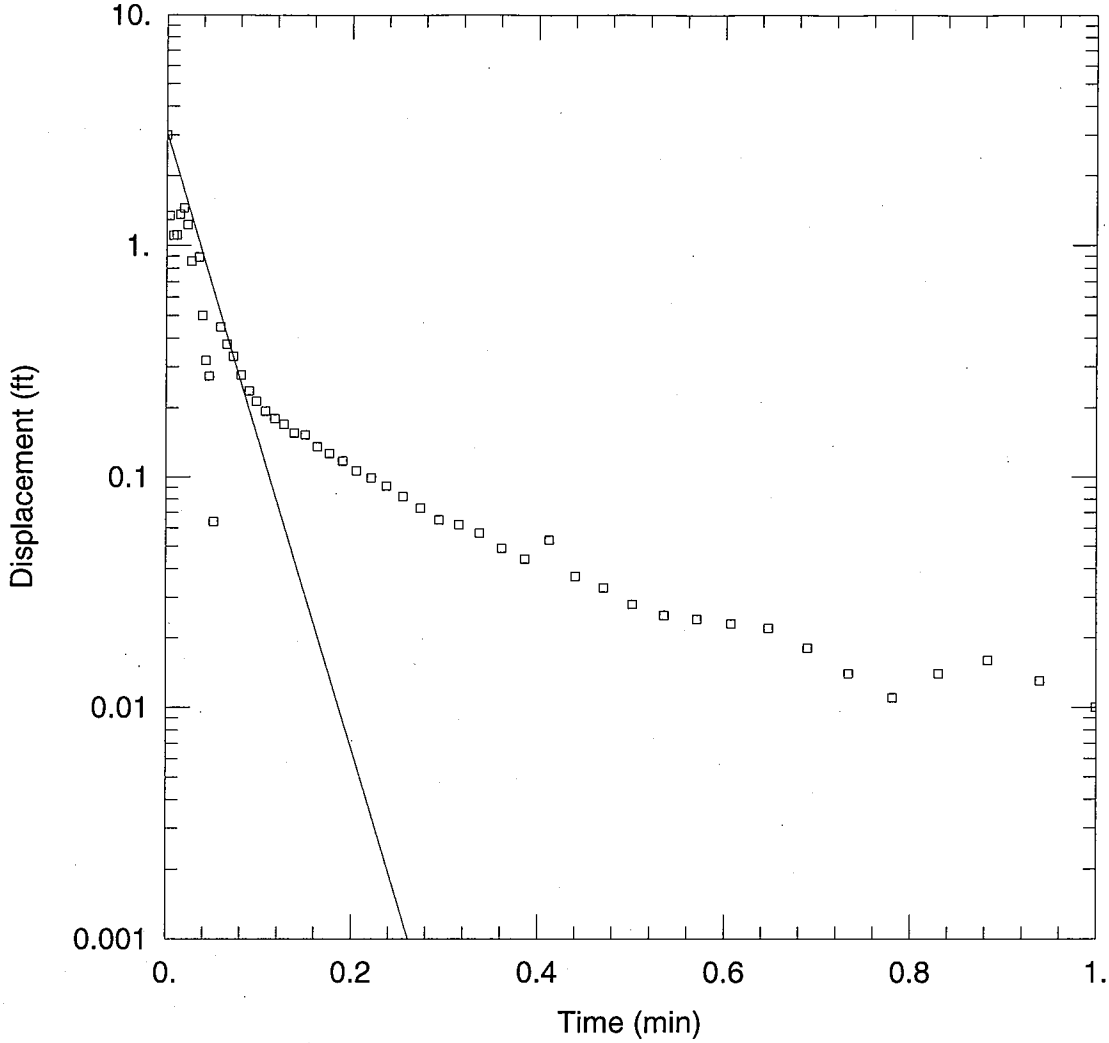
Saturated Thickness: 72.8 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-04I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 44.1 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 44.1 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 109.5 ft/day
y0 = 2.944 ft



FC-MW-05S - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-05S_Fall1.aqt
Date: 01/05/10 Time: 16:55:14

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-05S
Test Date: 9/14/09

AQUIFER DATA

Saturated Thickness: 69.58 ft
Anisotropy Ratio (Kz/Kr): 1.

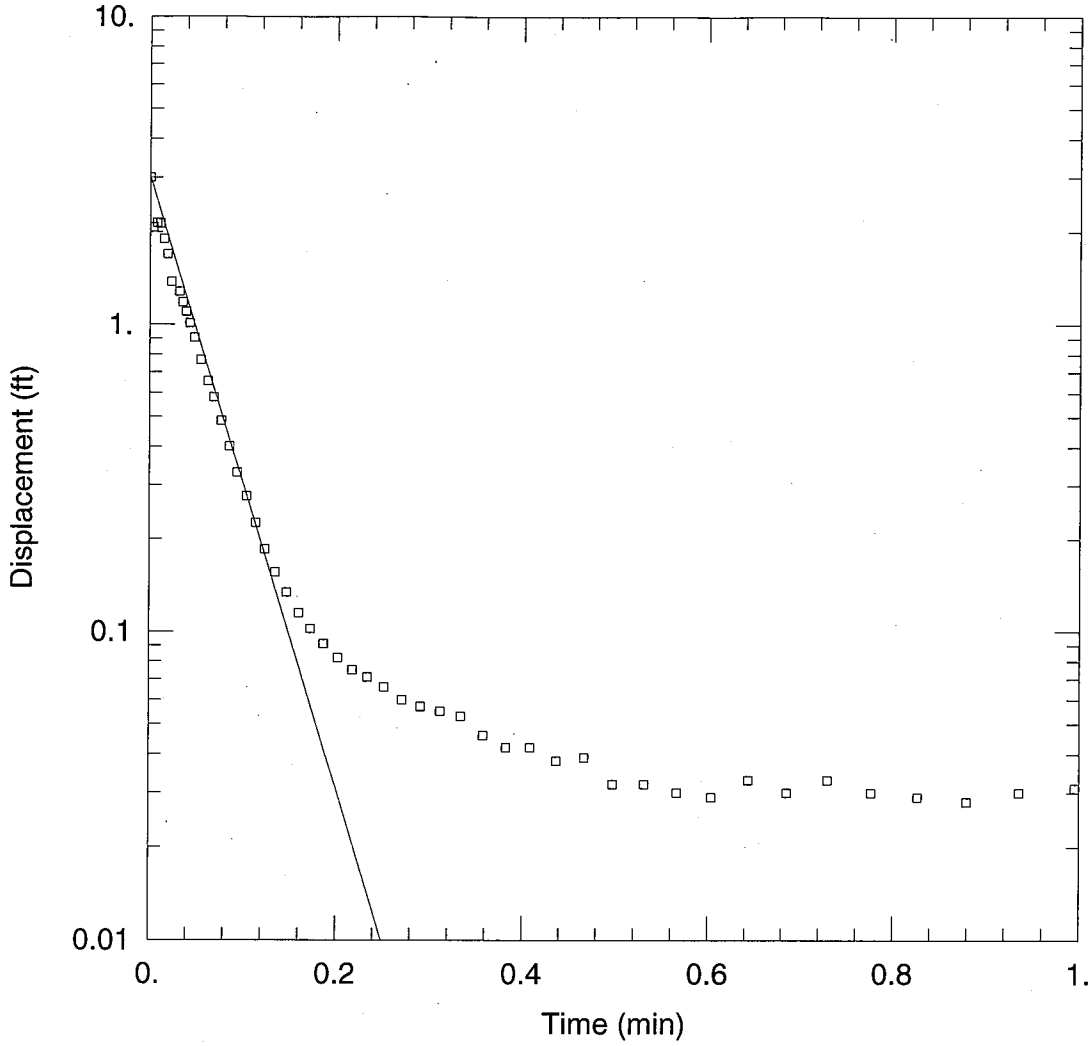
WELL DATA (FC-MW-05S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 7.33 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 7.33 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 348.9 ft/day
y0 = 3.073 ft



FC-MW-05S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-05S_Rise1.aqt
Date: 01/05/10 Time: 16:55:25

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-05S
Test Date: 9/14/09

AQUIFER DATA

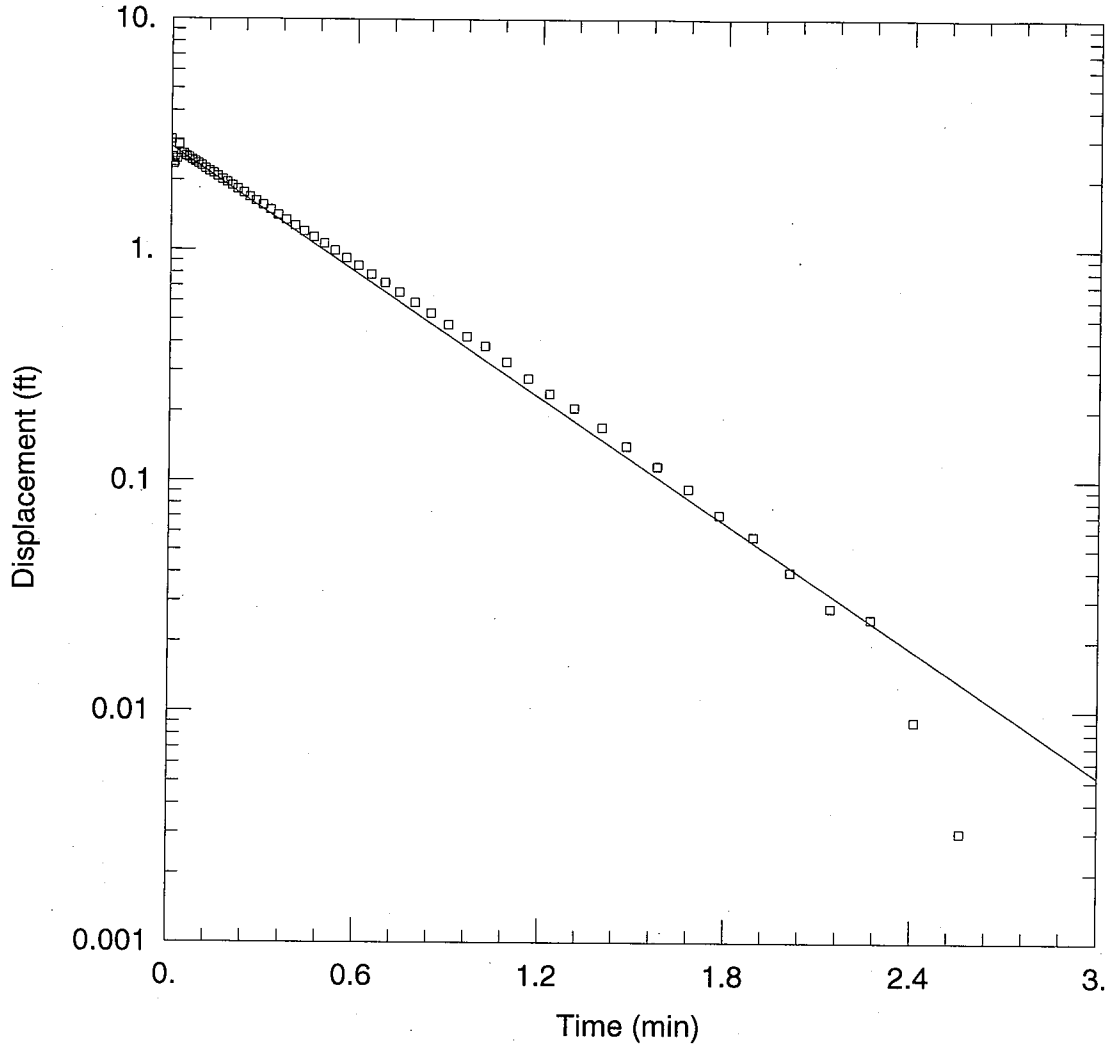
Saturated Thickness: 69.58 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-05S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 7.33 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 7.33 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 260.1 ft/day
y0 = 3.011 ft



FC-MW-05I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-05I_Fall1.aqt
Date: 01/05/10 Time: 16:56:07

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-05I
Test Date: 9/14/09

AQUIFER DATA

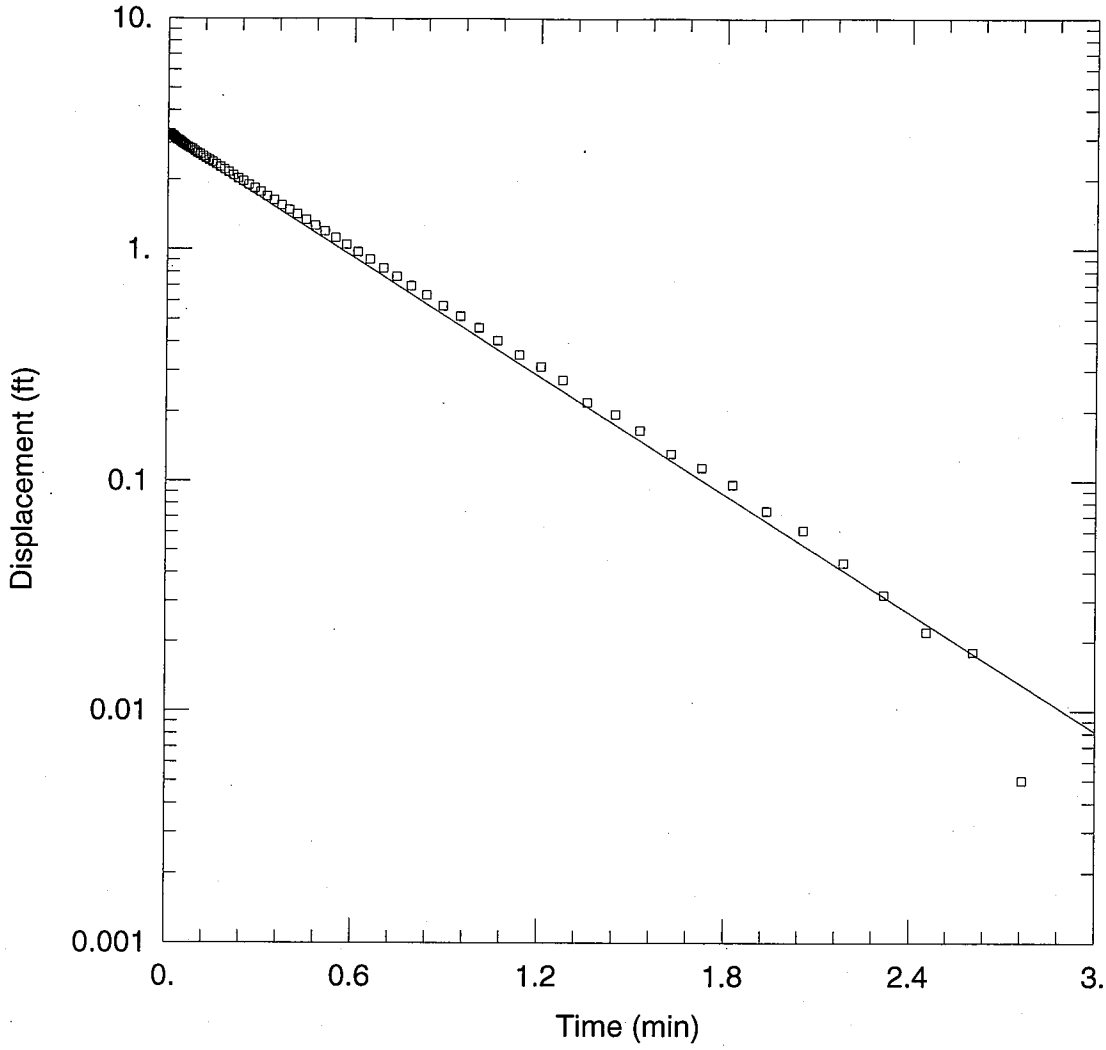
Saturated Thickness: 70.26 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-05I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 49.66 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 49.66 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 34.76 ft/day
y0 = 2.796 ft



FC-MW-05I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-05I_Rise1.aqt
Date: 01/05/10 Time: 16:56:13

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-05I
Test Date: 9/14/09

AQUIFER DATA

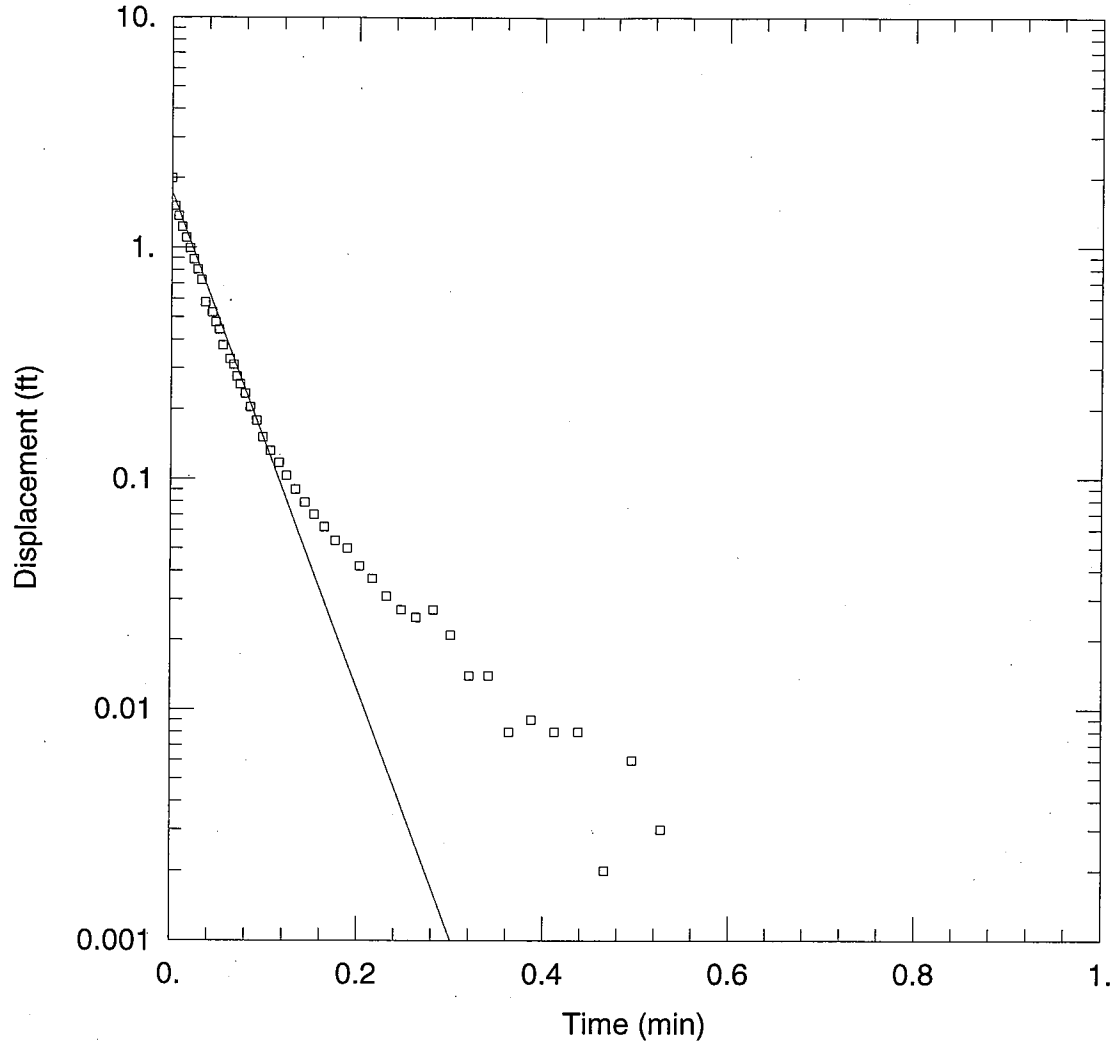
Saturated Thickness: 70.26 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-05I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 49.66 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 49.66 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 32.74 ft/day
y0 = 3.012 ft



FC-MW-07S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07S_Rise1.aqt
Date: 01/05/10 Time: 16:56:28

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07S
Test Date: 9/16/09

AQUIFER DATA

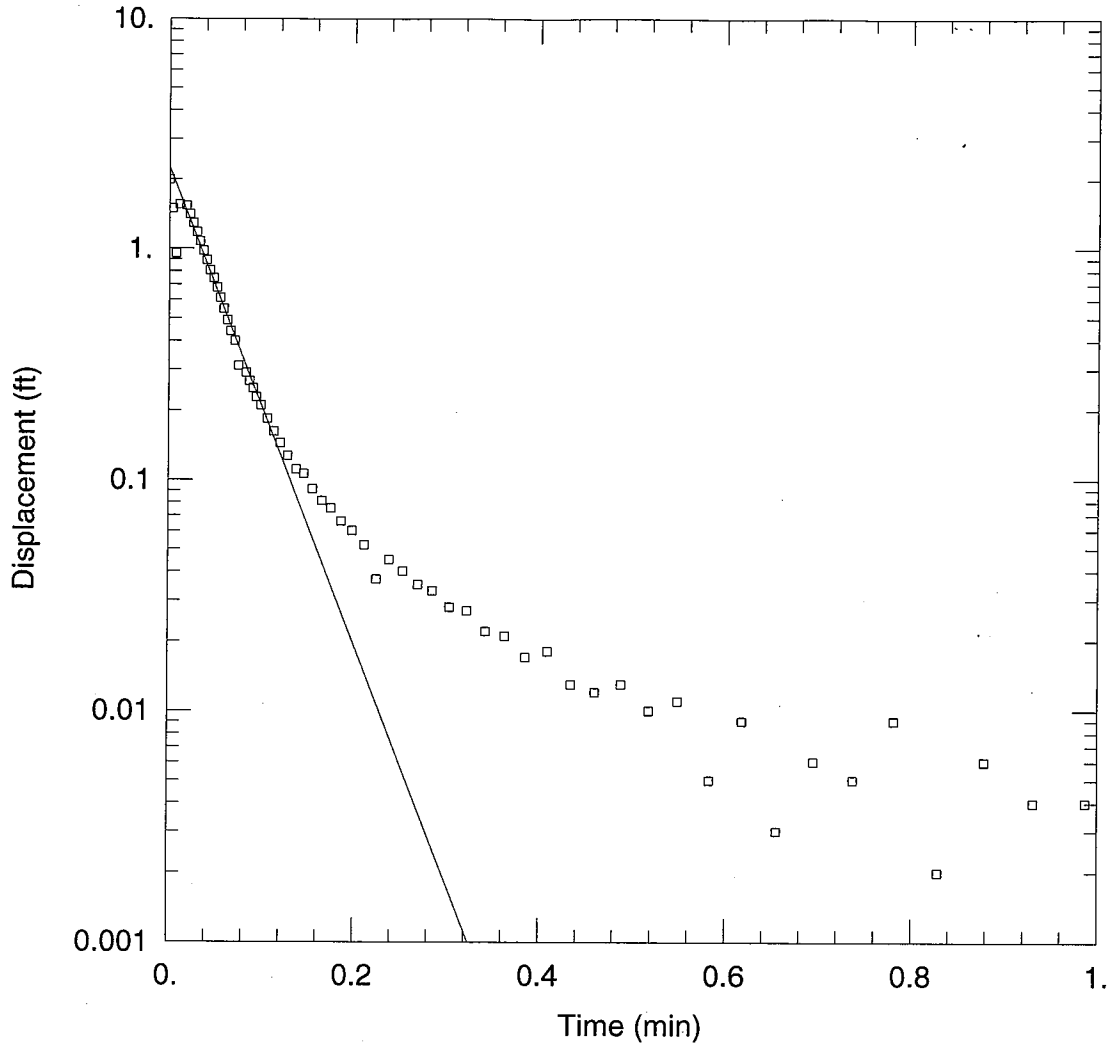
Saturated Thickness: 69.55 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 6.6 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 6.6 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 274.3 ft/day
y0 = 1.747 ft



FC-MW-07S - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07S_Rise2.aqt
Date: 01/05/10 Time: 17:01:23

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07S
Test Date: 9/16/09

AQUIFER DATA

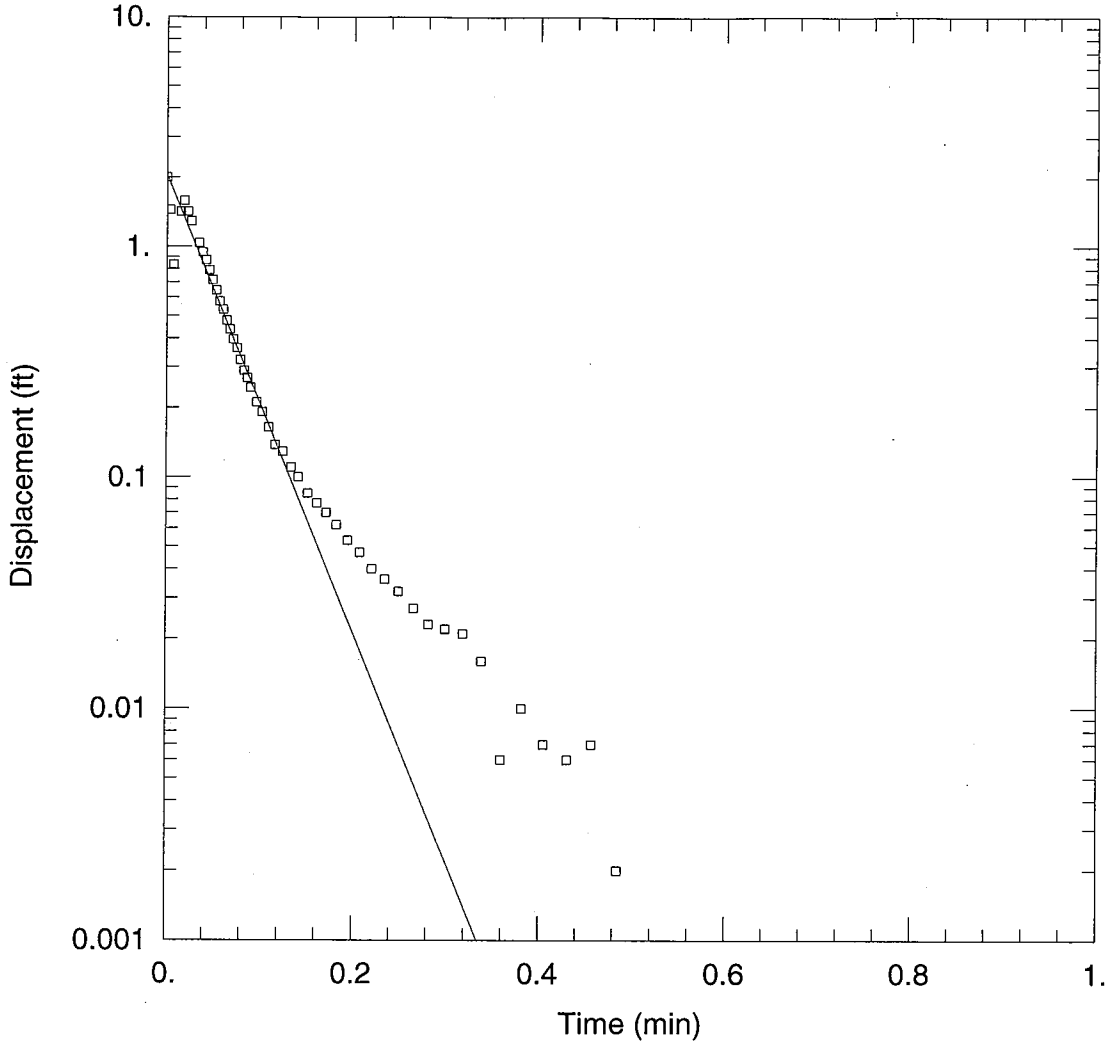
Saturated Thickness: 69.55 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 6.6 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 6.6 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 263. ft/day
y0 = 2.256 ft



FC-MW-07S - RISING HEAD #3

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07S_Rise3.aqt
Date: 01/05/10 Time: 16:56:51

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07S
Test Date: 9/16/09

AQUIFER DATA

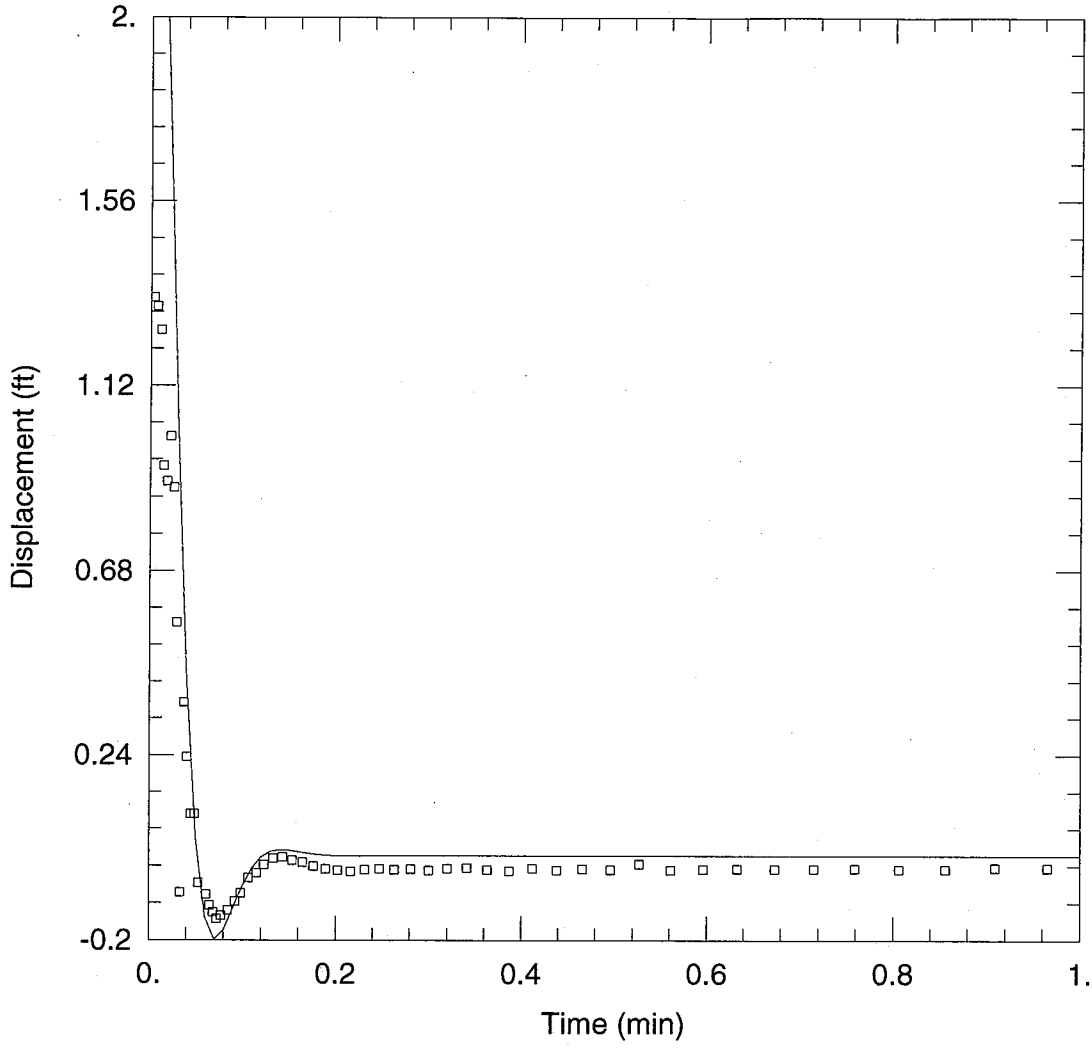
Saturated Thickness: 69.55 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 6.6 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 6.6 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 251.8 ft/day
y0 = 2.037 ft



FC-MW-07I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07I_Fall1.aqt
Date: 01/05/10 Time: 16:57:01

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07I
Test Date: 9/16/2009

AQUIFER DATA

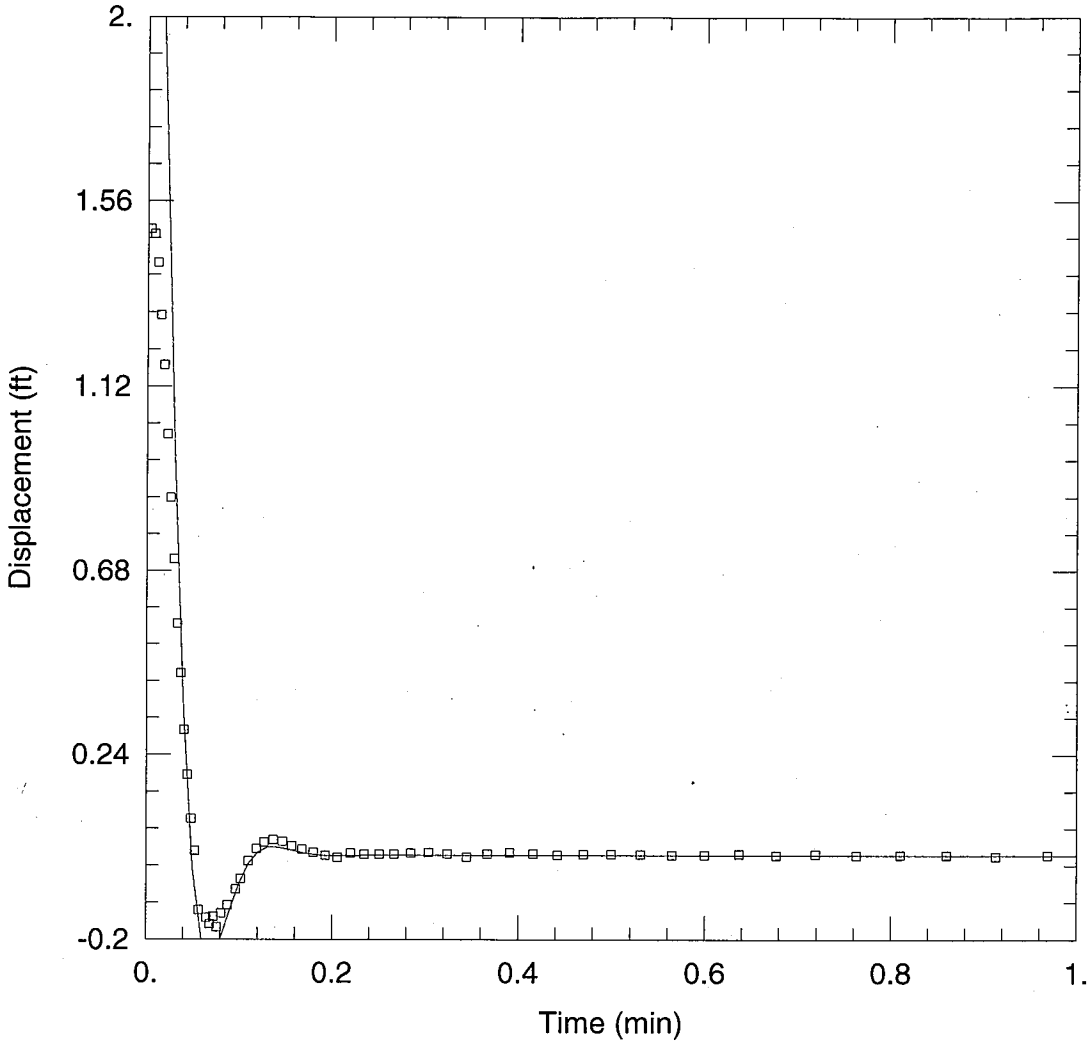
Saturated Thickness: 69.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 49.7 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 49.7 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 220. ft/day
C(D) = 0.6537



FC-MW-07I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07I_Rise1.aqt
Date: 01/05/10 Time: 16:57:22

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07I
Test Date: 9/16/2009

AQUIFER DATA

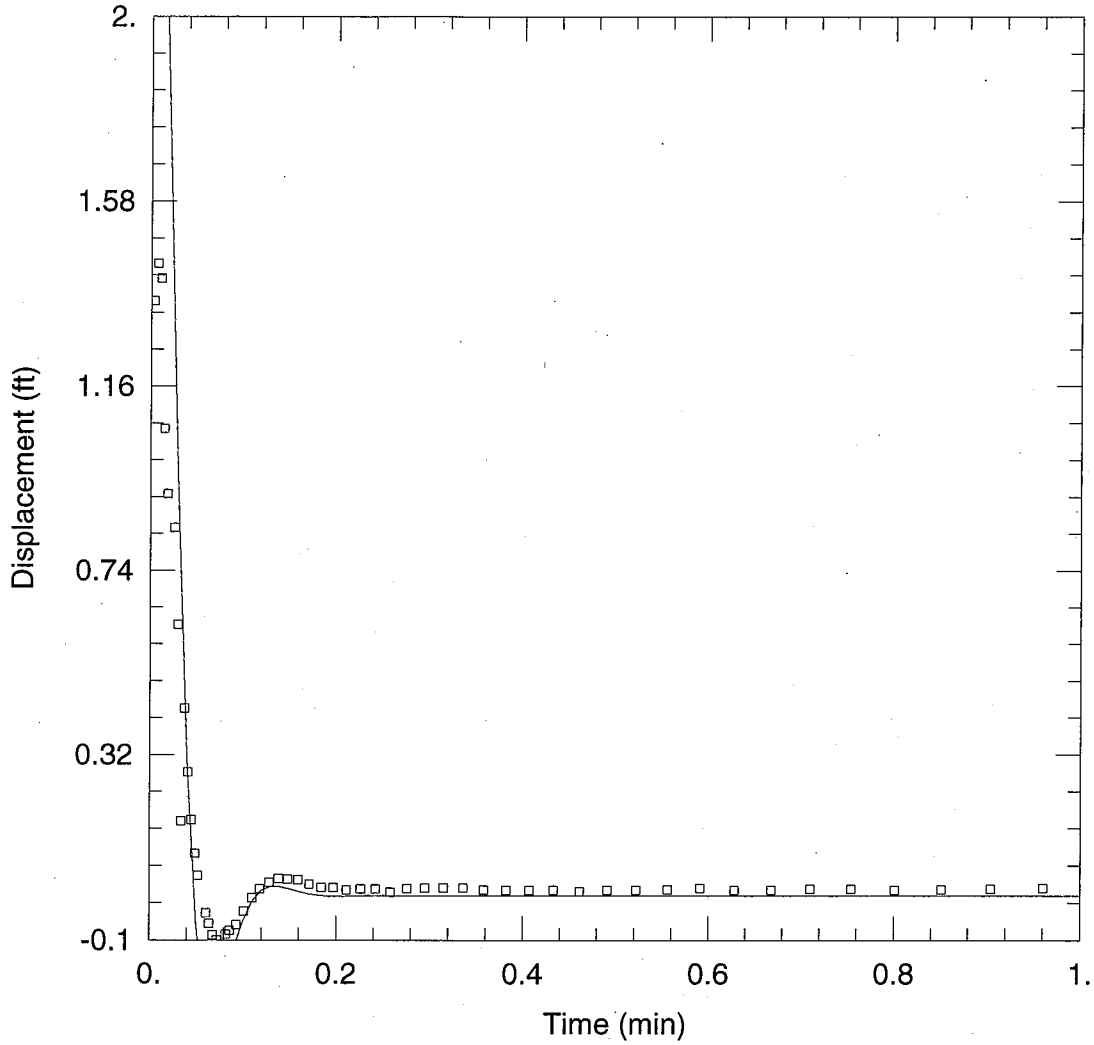
Saturated Thickness: 69.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 49.7 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 49.7 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 231.6 ft/day
C(D) = 0.625



FC-MW-07I - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07I_Fall2.aqt
Date: 01/05/10 Time: 16:57:32

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07I
Test Date: 9/16/2009

AQUIFER DATA

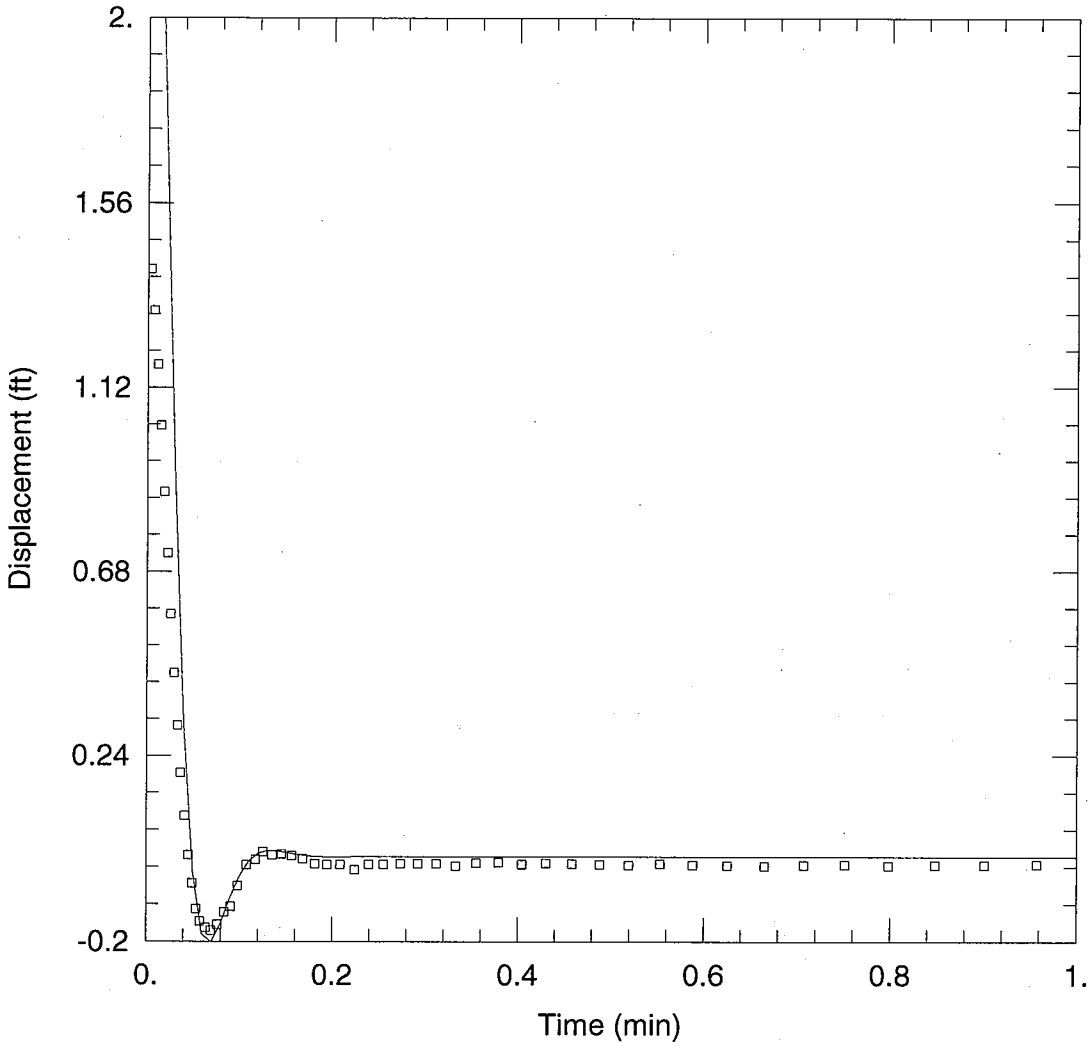
Saturated Thickness: 69.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 49.7 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 49.7 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 237.1 ft/day
C(D) = 0.62



FC-MW-07I - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\FC-MW-07I_Rise2.aqt
Date: 01/05/10 Time: 16:57:39

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: FC-MW-07I
Test Date: 9/16/2009

AQUIFER DATA

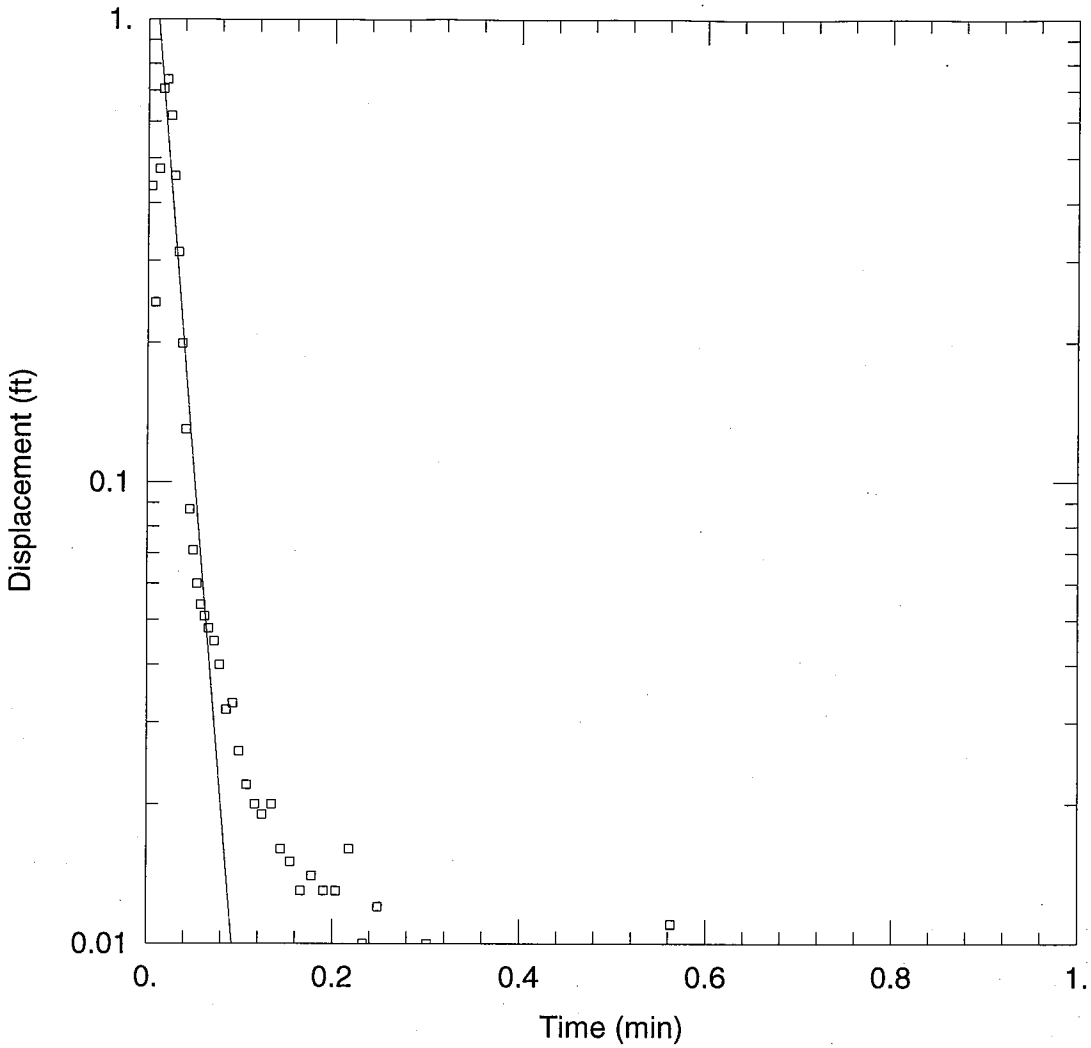
Saturated Thickness: 69.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (FC-MW-07I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 49.7 ft
Casing Radius: 0.1667 ft
Static Water Column Height: 49.7 ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 233.5 ft/day
C(D) = 0.6494



SA-PZ-118S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-118S_Rise1.aqt
Date: 01/05/10 Time: 17:05:46

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-118S
Test Date: 9/3/09

AQUIFER DATA

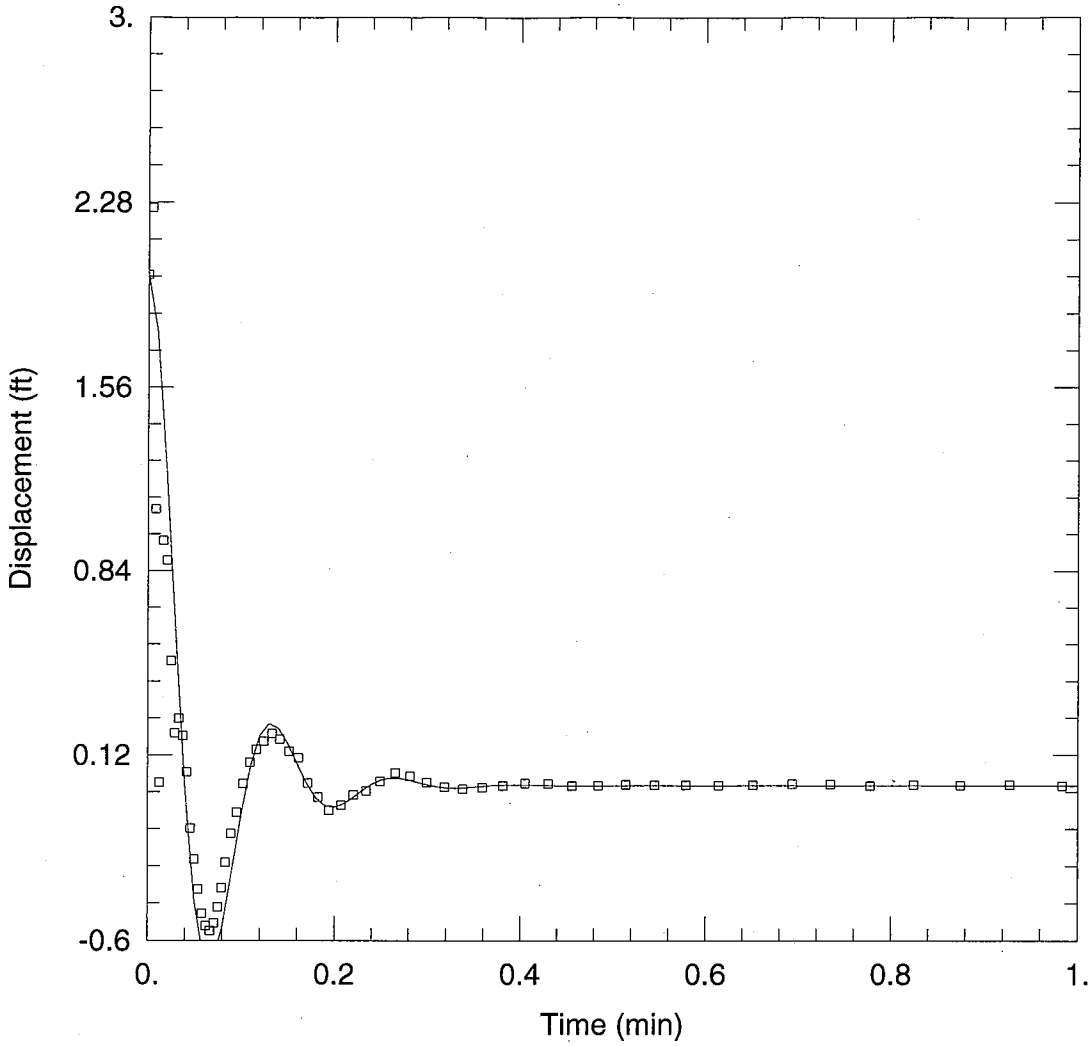
Saturated Thickness: 74.8 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-118S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 13.3 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 13.3 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 346.4 ft/day
y0 = 1.843 ft



SA-PZ-118I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-118I_Fall1.aqt
Date: 01/05/10 Time: 17:06:08

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-118I
Test Date: 9/3/09

AQUIFER DATA

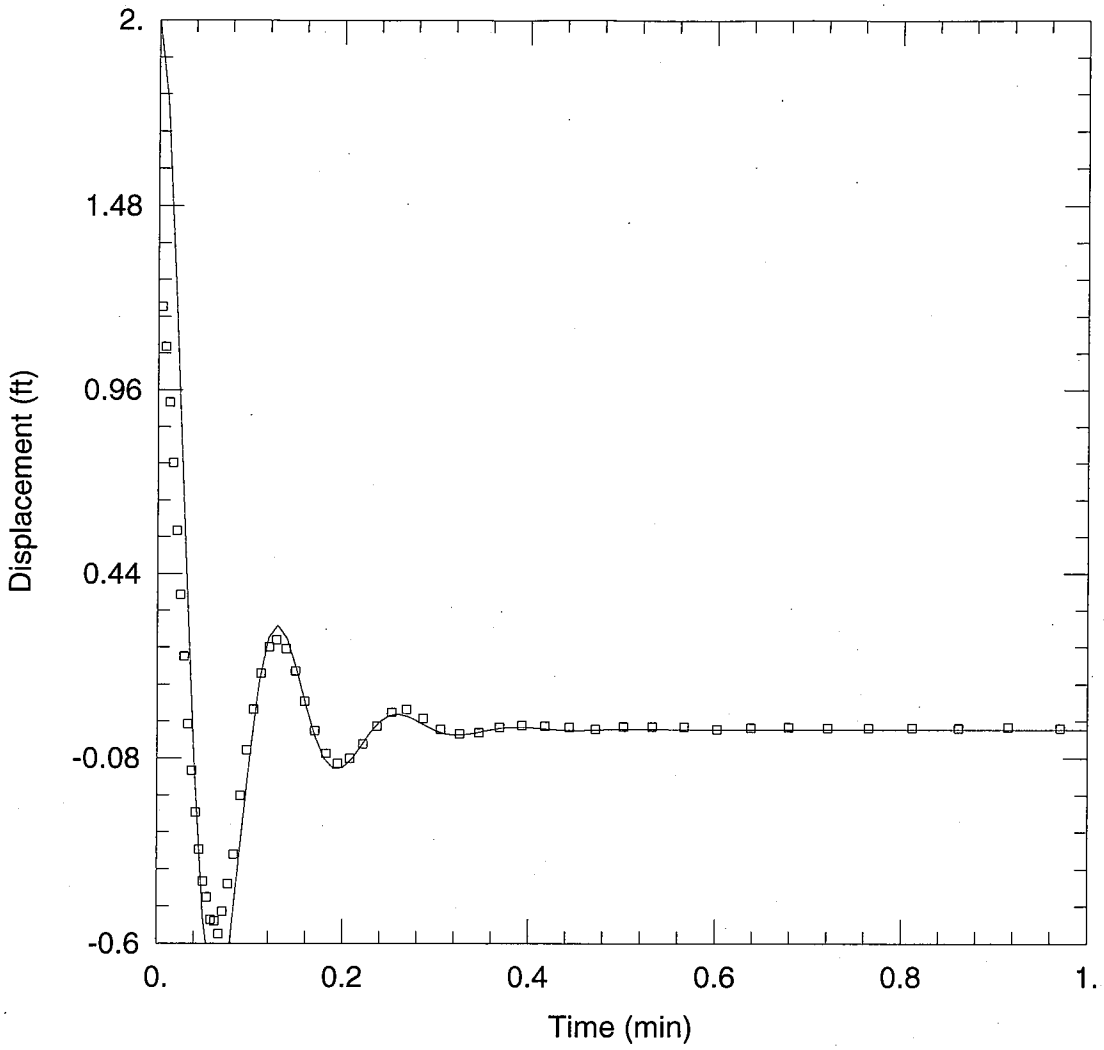
Saturated Thickness: 74.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-118I)

Initial Displacement: 2. ft
Total Well Penetration Depth: 54.3 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 54.3 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 115.3 ft/day
C(D) = 0.3186



SA-PZ-118I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-118I_Rise1.aqt
Date: 01/05/10 Time: 17:06:18

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-118I
Test Date: 9/3/09

AQUIFER DATA

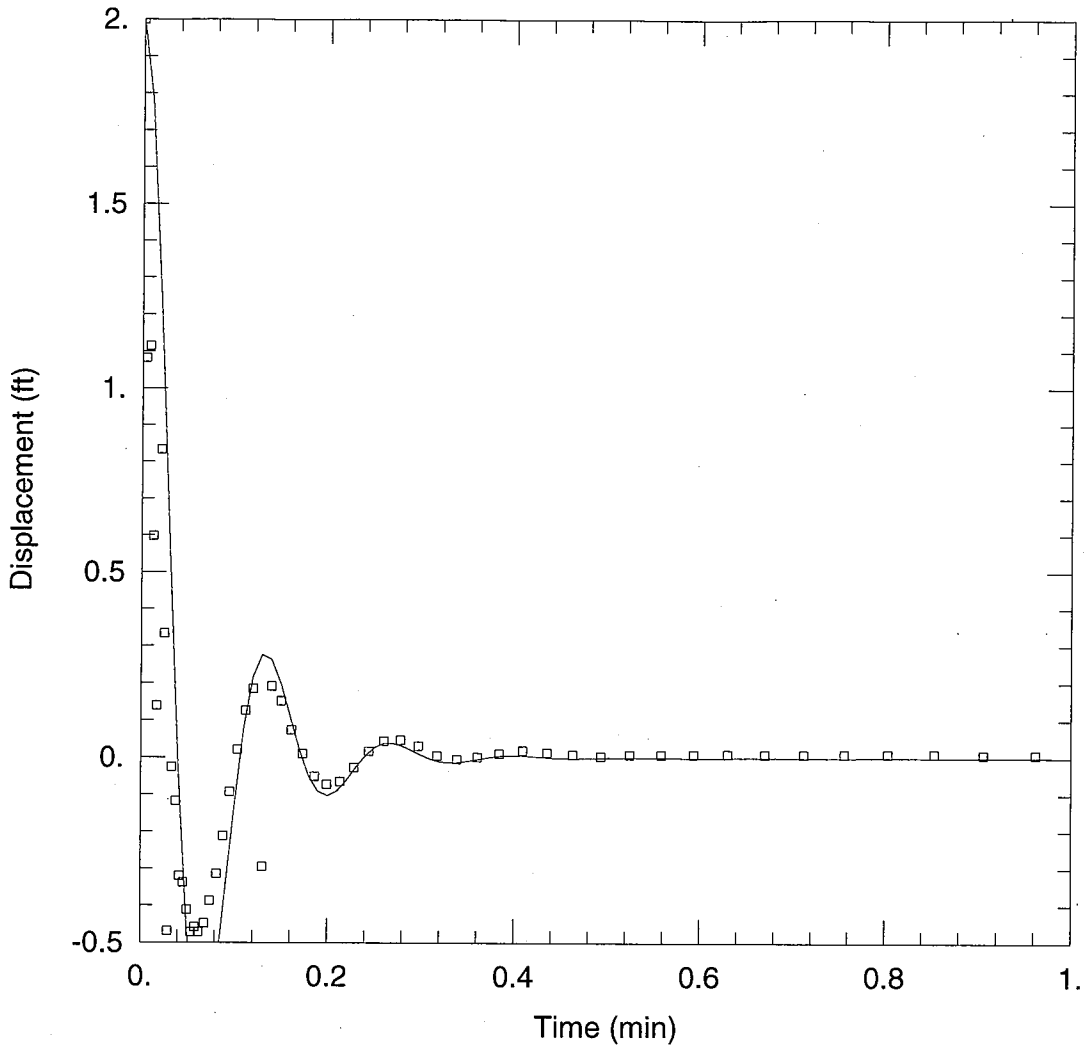
Saturated Thickness: 74.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-118I)

Initial Displacement: 2. ft
Total Well Penetration Depth: 54.3 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 54.3 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 127.3 ft/day
C(D) = 0.2921



SA-PZ-118I - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-118I_Fall2.aqt
Date: 01/05/10 Time: 17:06:24

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-118I
Test Date: 9/3/09

AQUIFER DATA

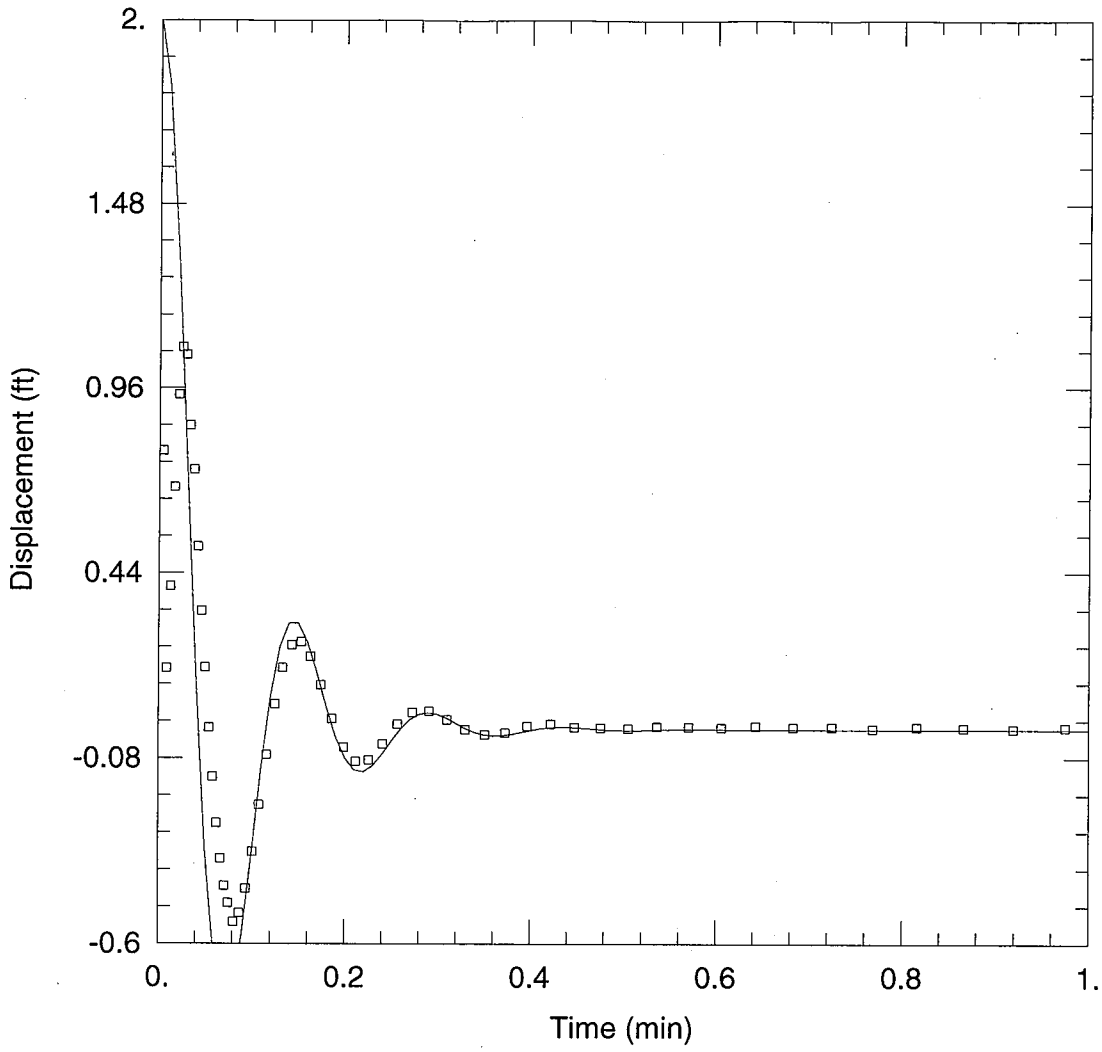
Saturated Thickness: 74.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-118I)

Initial Displacement: 2. ft
Total Well Penetration Depth: 54.3 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 54.3 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 120.9 ft/day
C(D) = 0.2994



SA-PZ-118I - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-118I_Rise2.aqt
Date: 01/05/10 Time: 17:06:33

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-118I
Test Date: 9/3/09

AQUIFER DATA

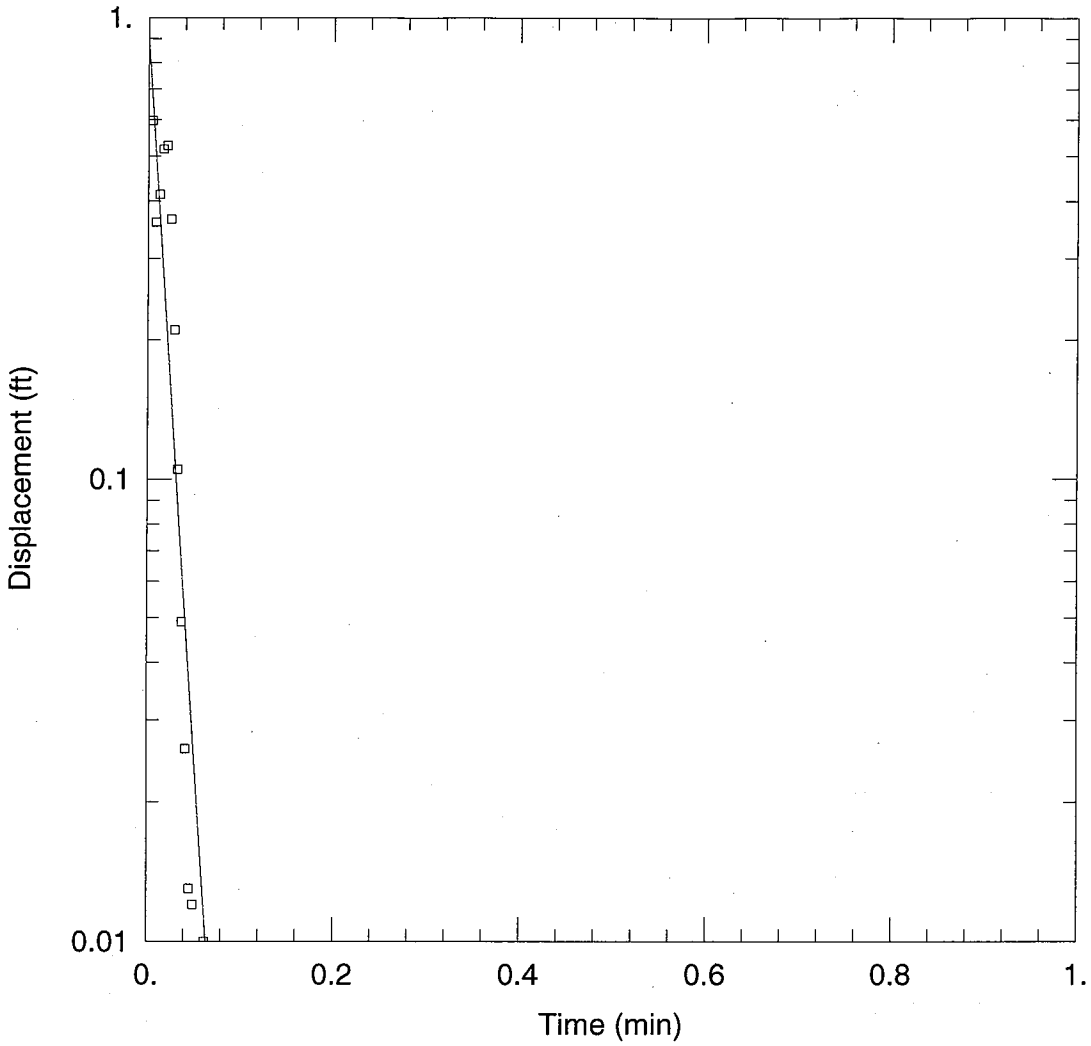
Saturated Thickness: 74.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-118I)

Initial Displacement: 2. ft
Total Well Penetration Depth: 54.3 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 54.3 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 115.6 ft/day
C(D) = 0.2862



SA-PZ-123S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-123S_Rise1.aqt
Date: 01/05/10 Time: 17:07:01

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-123S
Test Date: 9/3/09

AQUIFER DATA

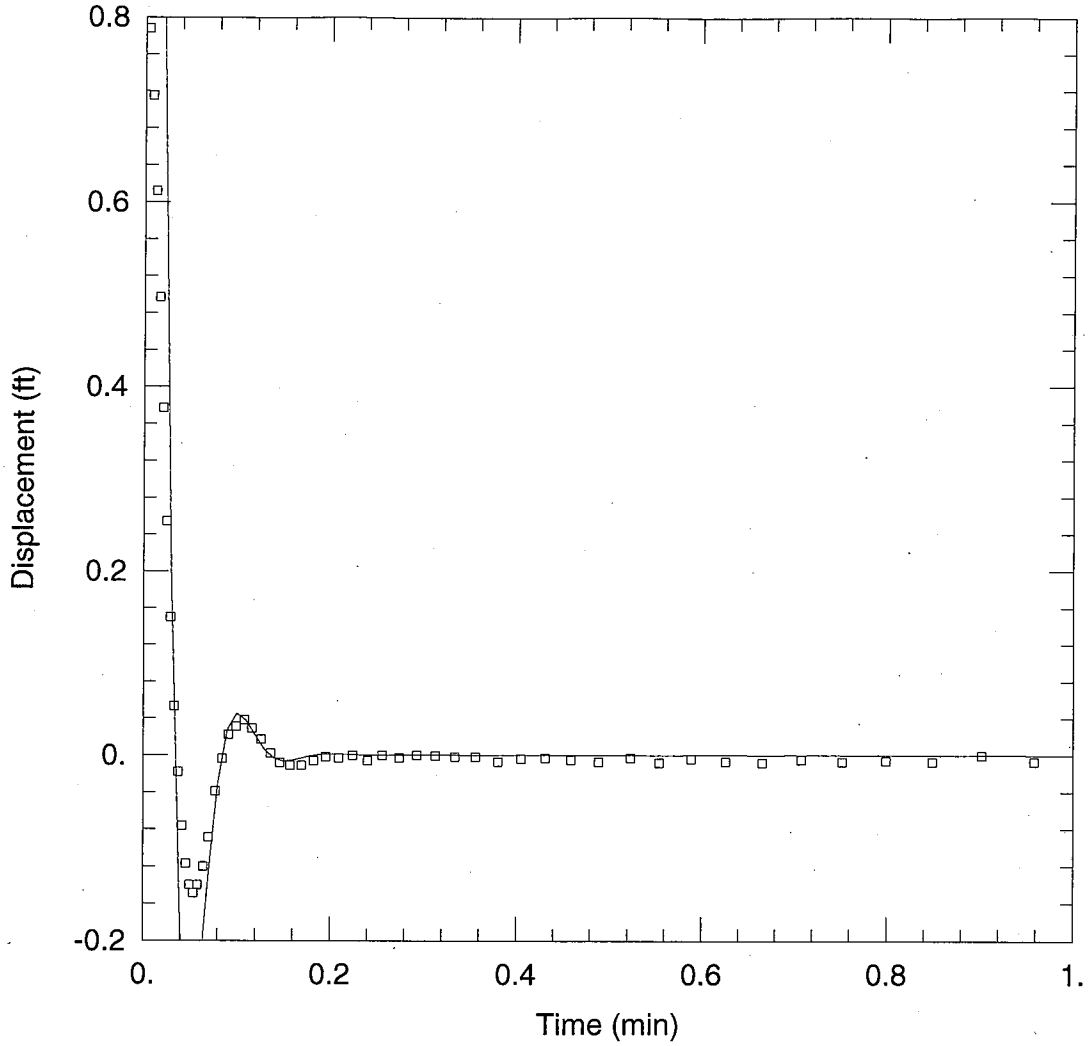
Saturated Thickness: 70.65 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-123S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 406. ft/day
y0 = 0.904 ft



SA-PZ-123I1 - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-123I1_Rise1.aqt
Date: 01/05/10 Time: 17:07:20

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-123I1
Test Date: 9/3/09

AQUIFER DATA

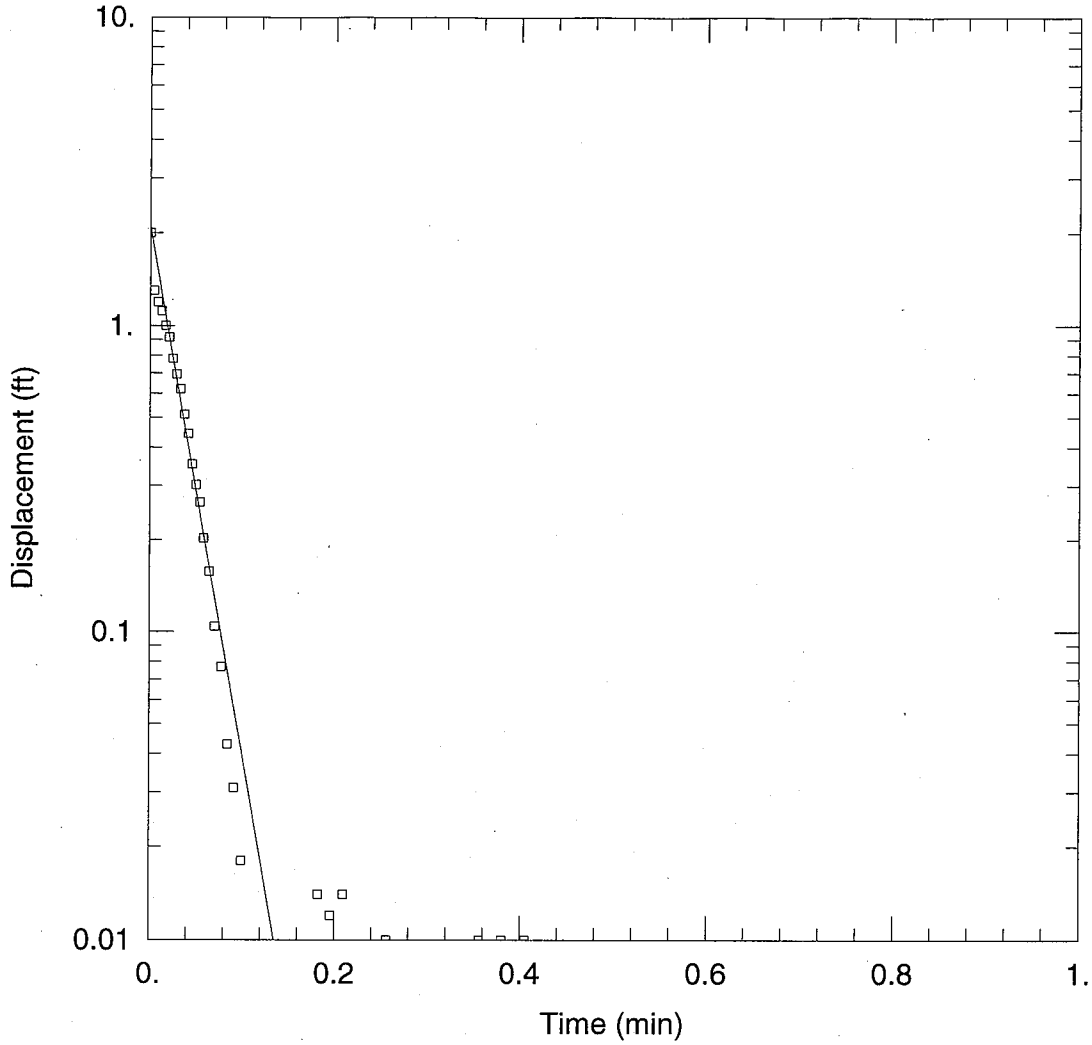
Saturated Thickness: 70.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-123I1)

Initial Displacement: 2. ft
Total Well Penetration Depth: 34.6 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 34.6 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 93.55 ft/day
C(D) = 0.5173



SA-PZ-123I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-PZ-123I_Rise1.aqt
Date: 01/05/10 Time: 17:07:28

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-PZ-123I
Test Date: 9/3/09

AQUIFER DATA

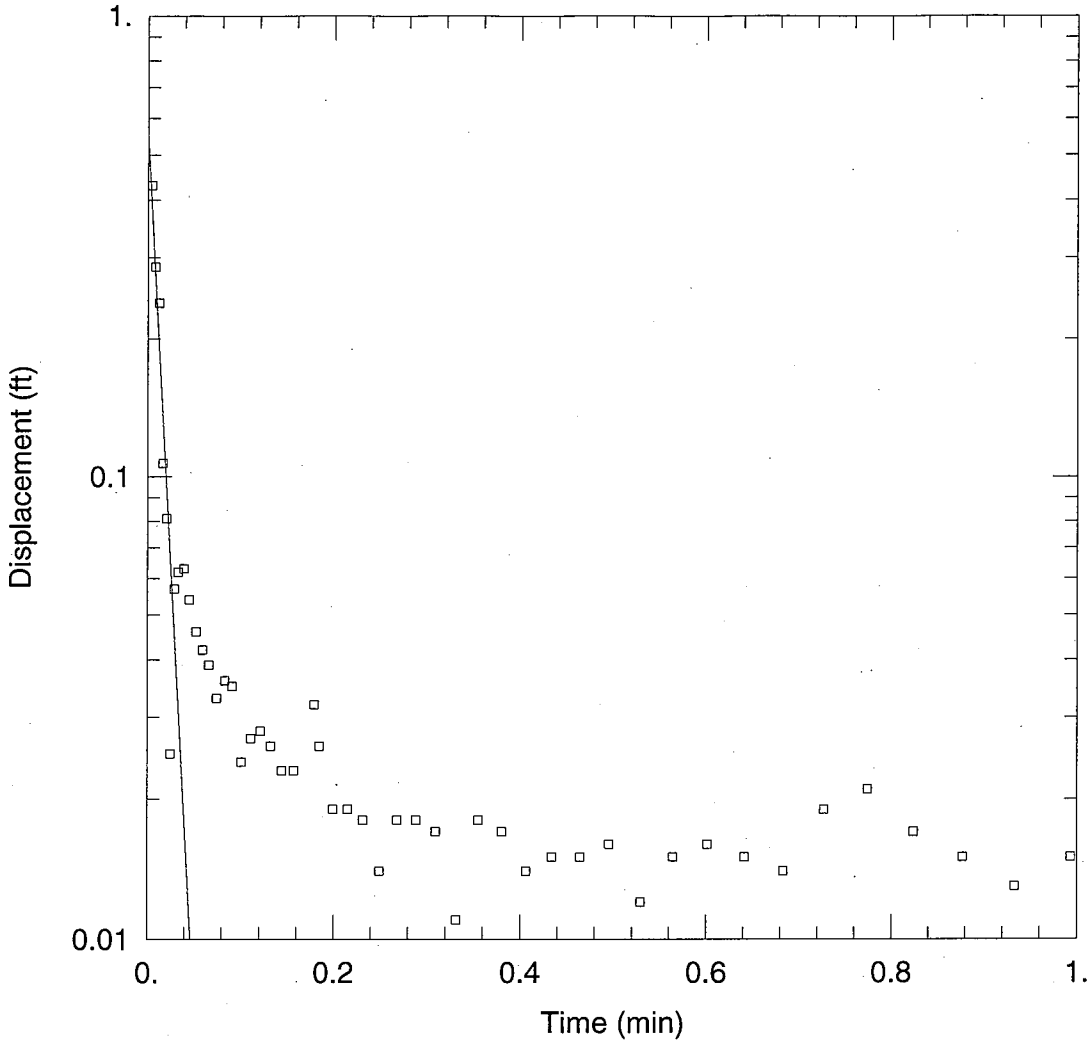
Saturated Thickness: 74.5 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-PZ-123I)

Initial Displacement: 2. ft
Total Well Penetration Depth: 73.2 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 73.2 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 359. ft/day
y0 = 2.087 ft



SA-MW-127S - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127S_Fall1.aqt
Date: 01/05/10 Time: 17:07:59

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127S
Test Date: 9/10/09

AQUIFER DATA

Saturated Thickness: 72.71 ft
Anisotropy Ratio (Kz/Kr): 1.

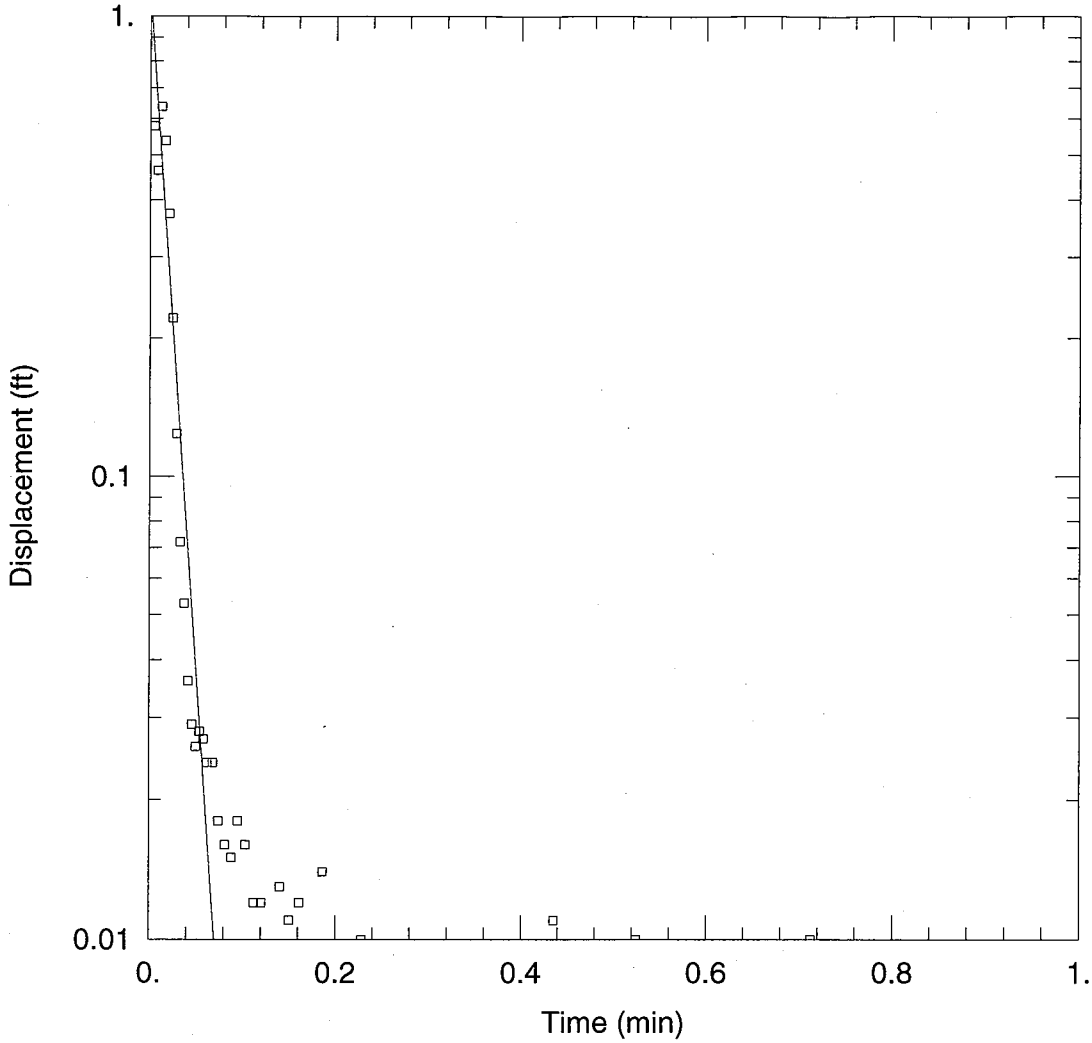
WELL DATA (SA-MW-127S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.88 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.88 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 499.1 ft/day
y0 = 0.556 ft



SA-MW-127S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127S_Rise1.aqt
Date: 01/05/10 Time: 17:08:13

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127S
Test Date: 9/10/09

AQUIFER DATA

Saturated Thickness: 72.71 ft
Anisotropy Ratio (Kz/Kr): 1.

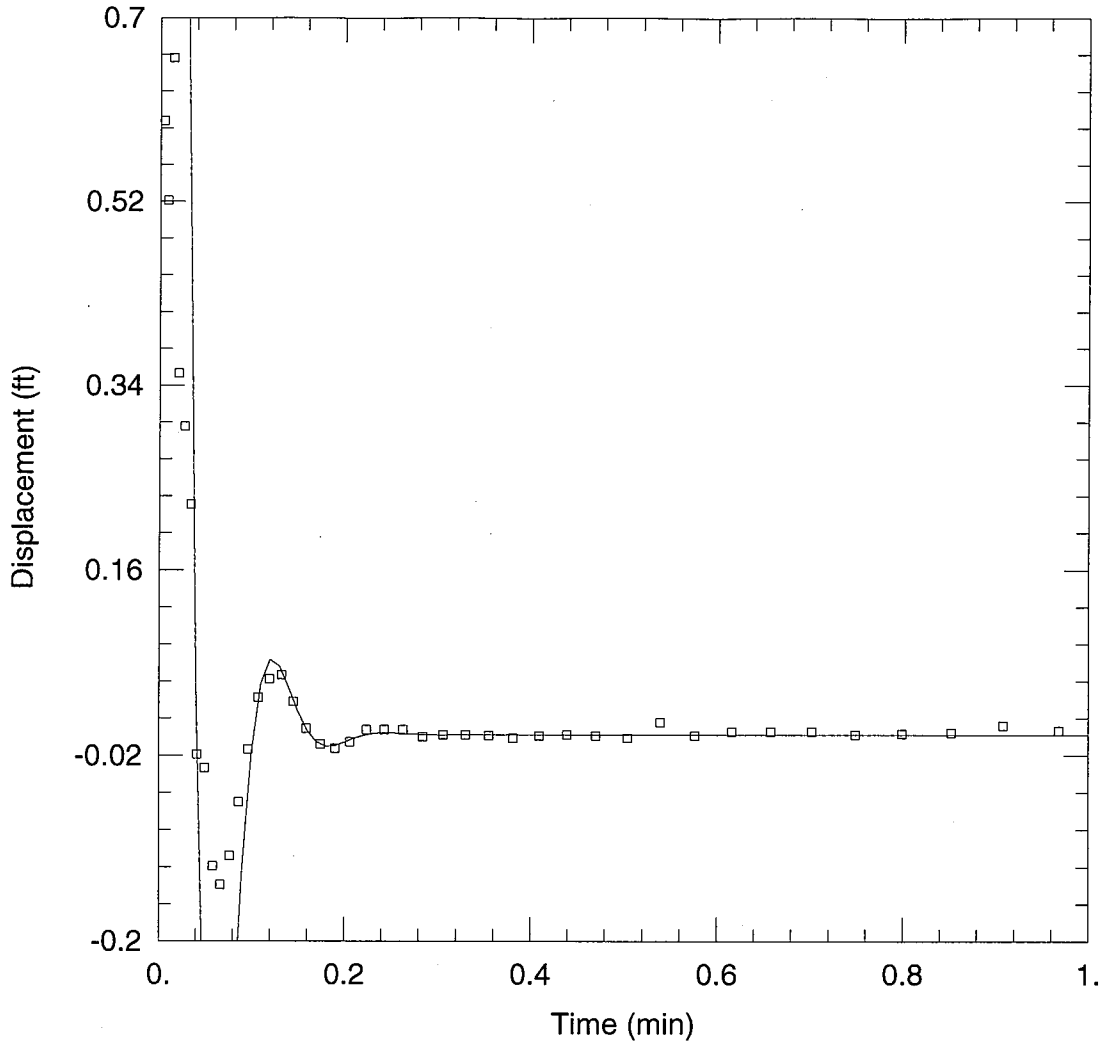
WELL DATA (SA-MW-127S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.88 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.88 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 388.7 ft/day
y0 = 1.112 ft



SA-MW-127I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127I_Fall1.aqt
Date: 01/05/10 Time: 17:08:37

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127I
Test Date: 9/10/09

AQUIFER DATA

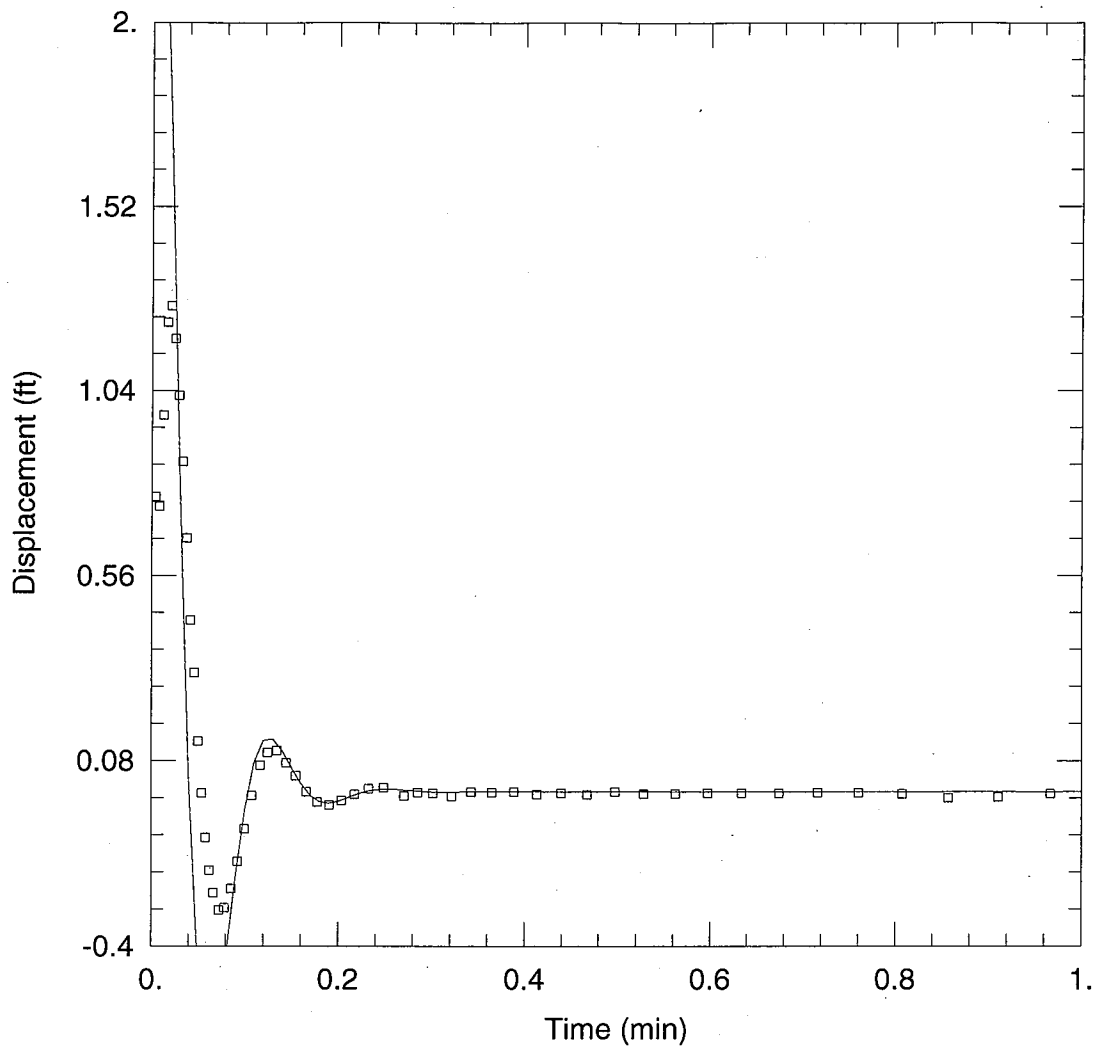
Saturated Thickness: 72.52 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 40.52 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 40.52 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 80.22 ft/day
C(D) = 0.5086



SA-MW-127I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127I_Rise1.aqt
Date: 01/05/10 Time: 17:08:50

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127I
Test Date: 9/10/09

AQUIFER DATA

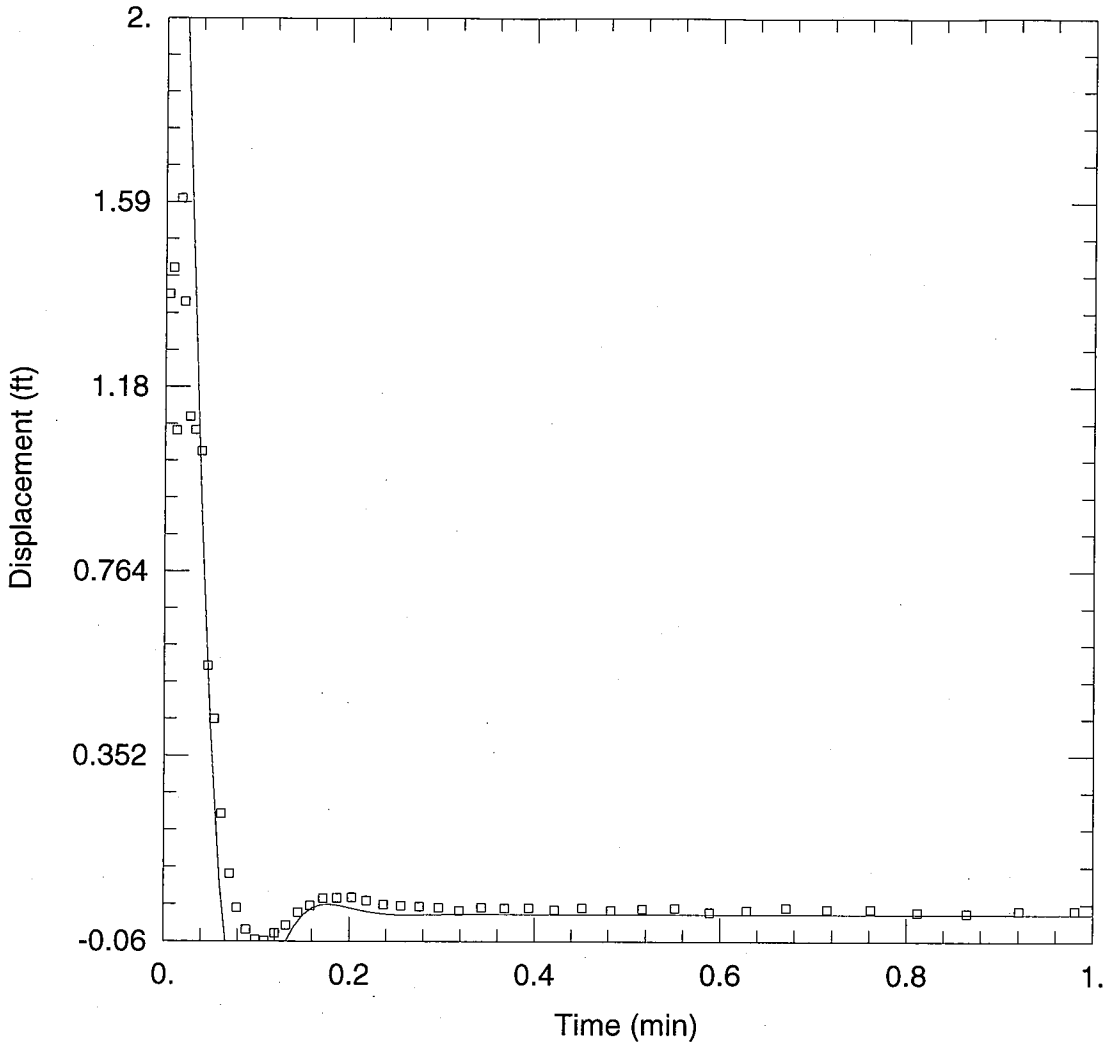
Saturated Thickness: 72.52 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 40.52 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 40.52 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 86.63 ft/day
C(D) = 0.4387



SA-MW-127D - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127D_Fall1.aqt
Date: 01/05/10 Time: 17:09:08

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127D
Test Date: 9/10/09

AQUIFER DATA

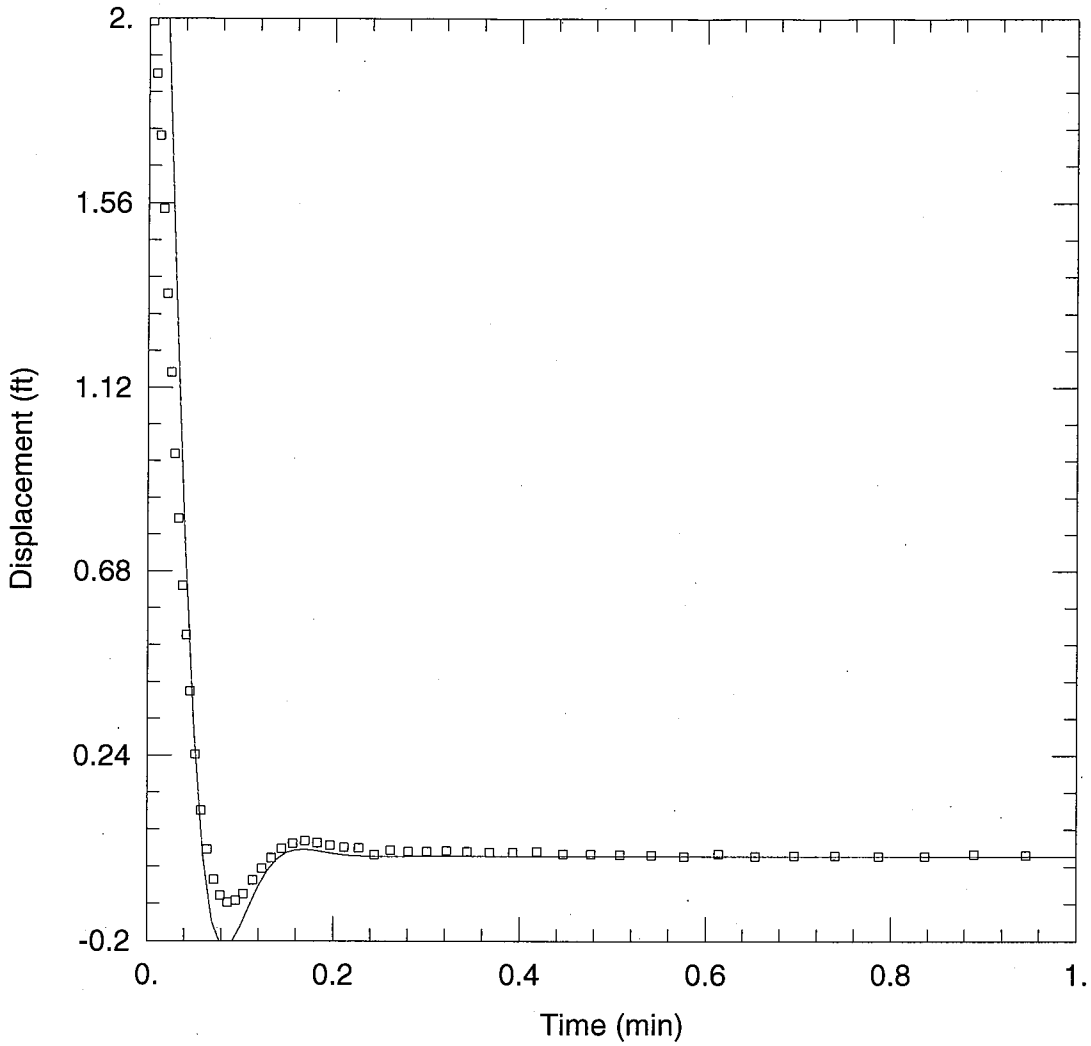
Saturated Thickness: 71.25 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 68.45 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 68.45 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 58.84 ft/day
C(D) = 0.6194



SA-MW-127D - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127D_Rise1.aqt
Date: 01/05/10 Time: 17:09:22

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127D
Test Date: 9/10/09

AQUIFER DATA

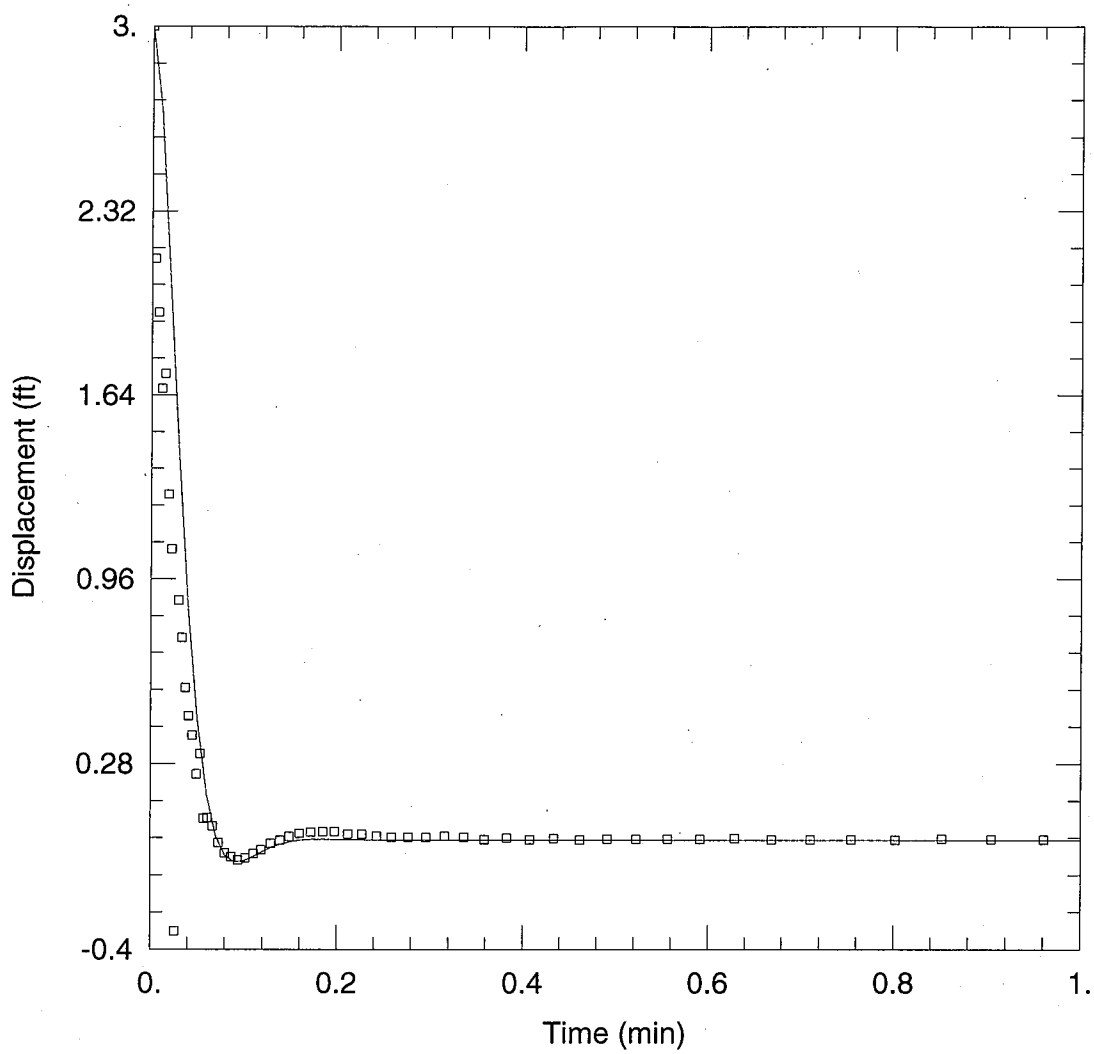
Saturated Thickness: 71.25 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 68.45 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 68.45 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 61.43 ft/day
C(D) = 0.6413



SA-MW-127D REDO - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127D REDO_Fall1.aqt
Date: 01/05/10 Time: 17:09:35

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127D
Test Date: 9/16/09

AQUIFER DATA

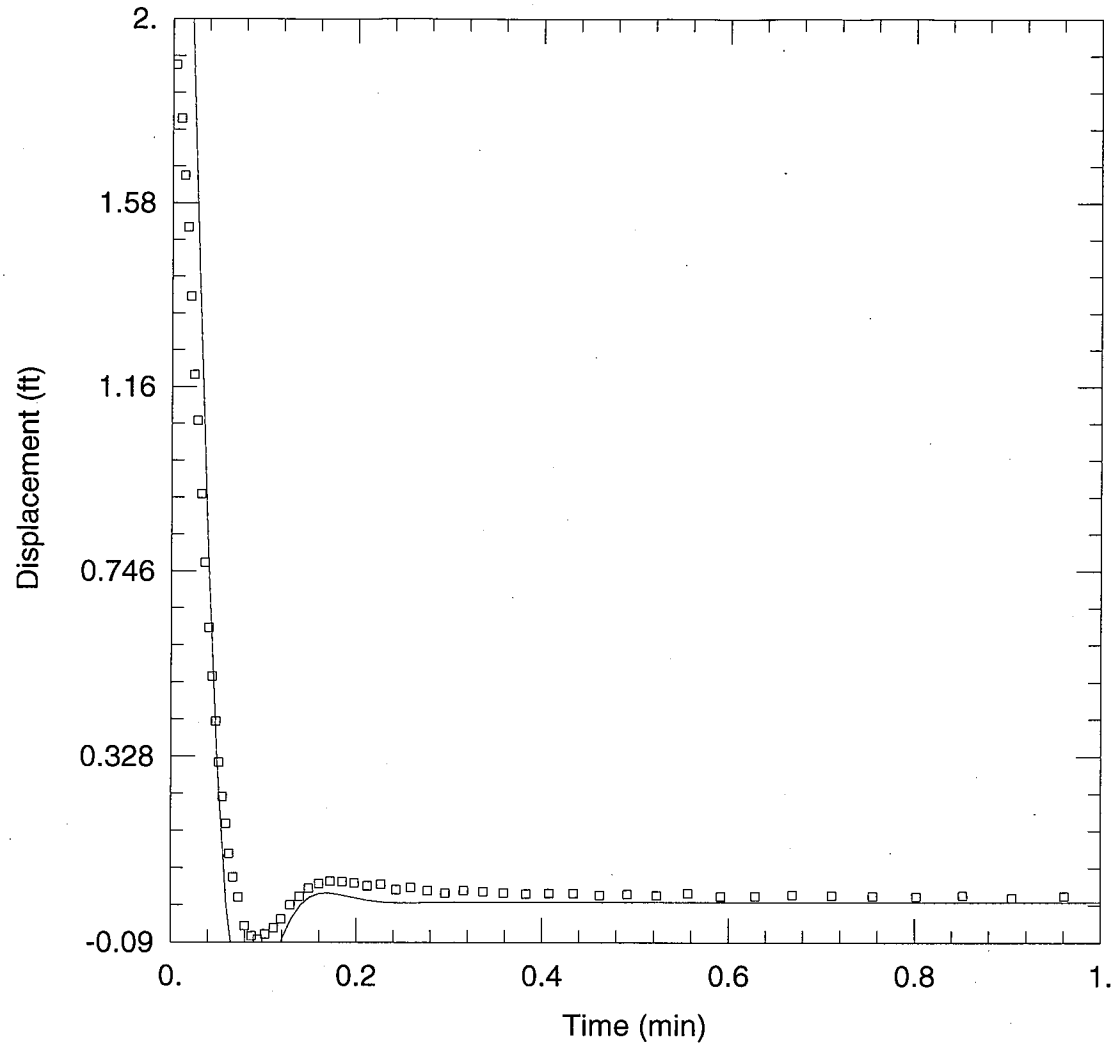
Saturated Thickness: 71.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 68.5 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 68.5 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 54.79 ft/day
C(D) = 0.7535



SA-MW-127D REDO - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127D REDO_Rise1.aqt
Date: 01/05/10 Time: 17:09:50

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127D
Test Date: 9/16/09

AQUIFER DATA

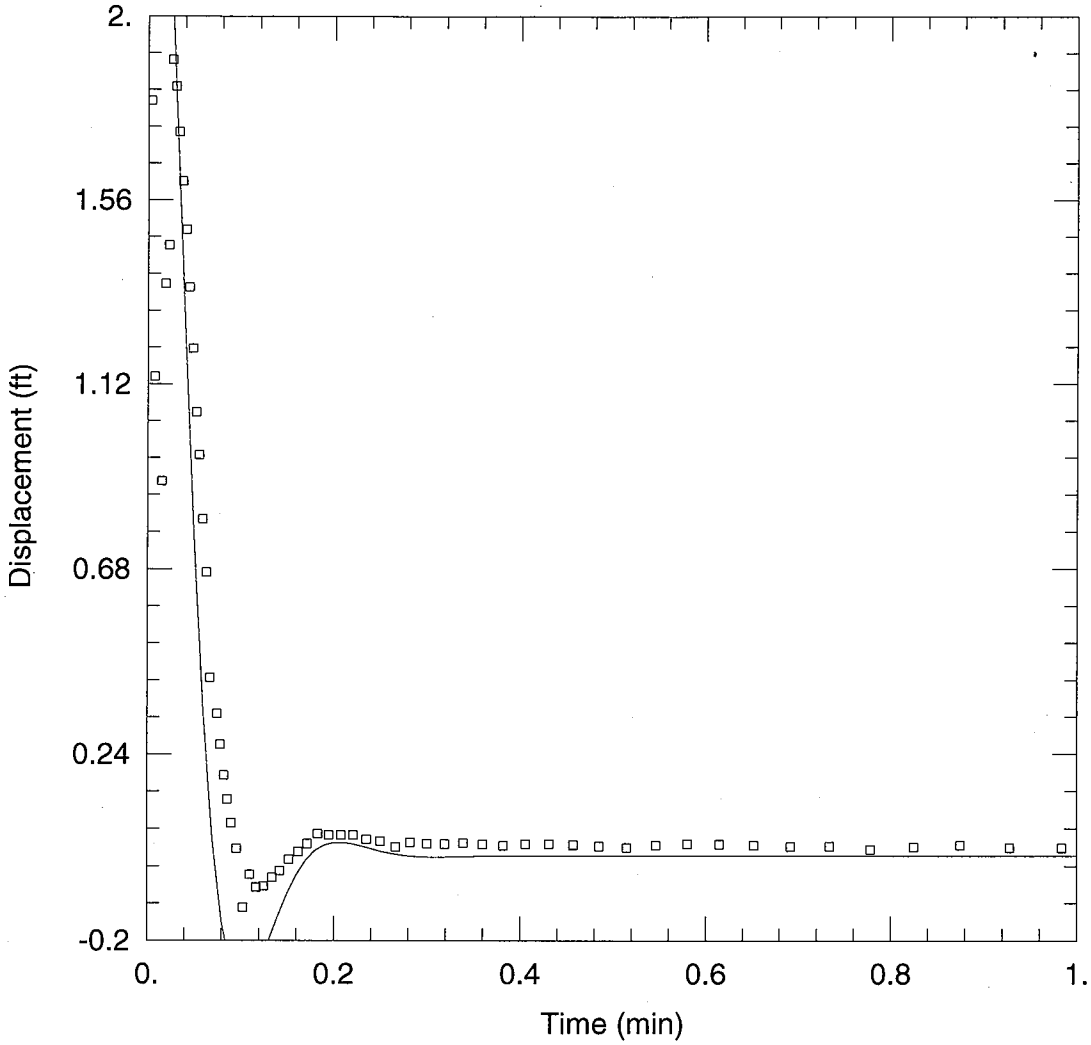
Saturated Thickness: 71.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 68.5 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 68.5 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 62.02 ft/day
C(D) = 0.6215



SA-MW-127D REDO - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-127D REDO_Rise2.aqt
Date: 01/05/10 Time: 17:10:00

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-127D
Test Date: 9/16/09

AQUIFER DATA

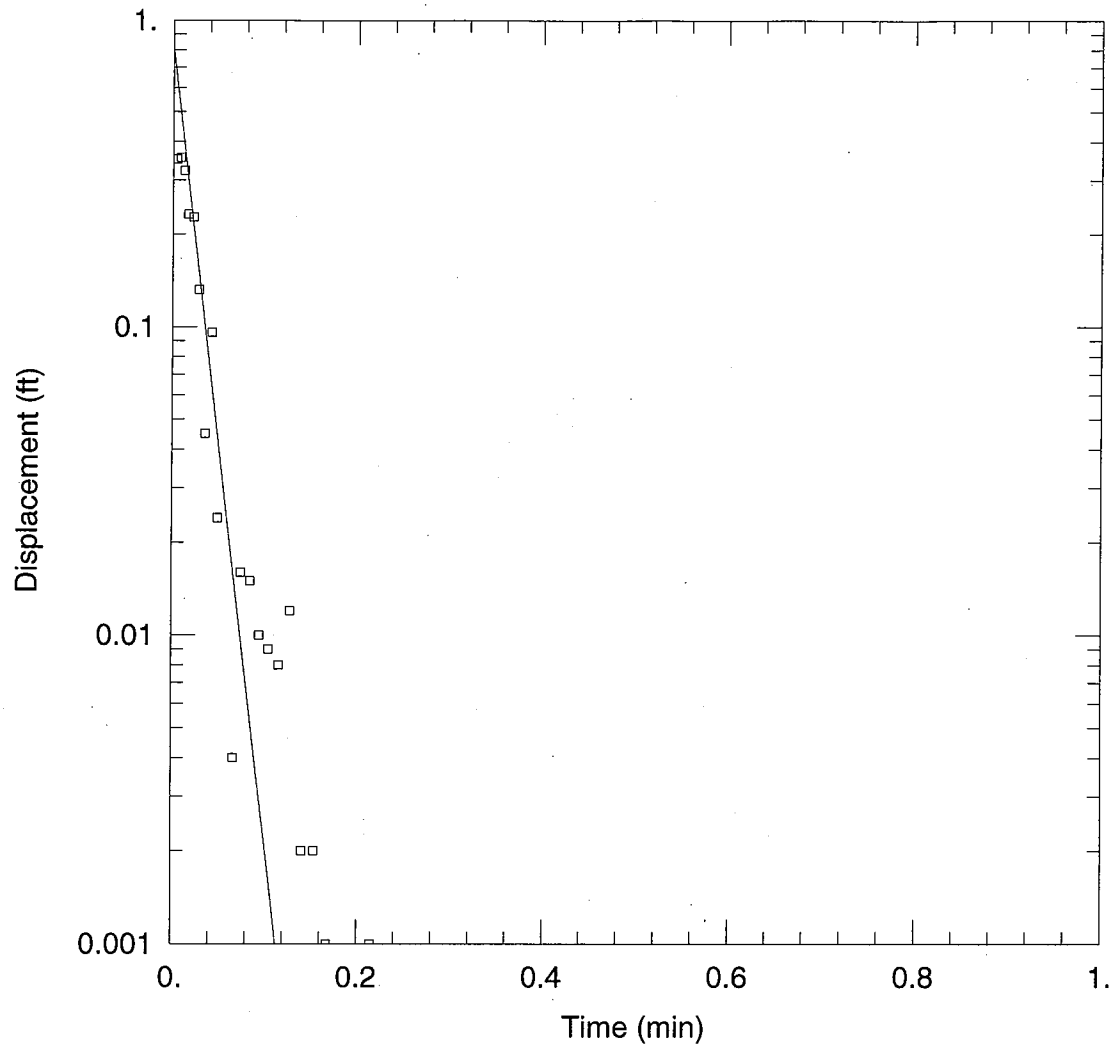
Saturated Thickness: 71.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-127D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 68.5 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 68.5 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 51.68 ft/day
C(D) = 0.5868



SA-MW-128S - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128S_Fall1.aqt
Date: 01/05/10 Time: 17:10:27

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128S
Test Date: 9/9/09

AQUIFER DATA

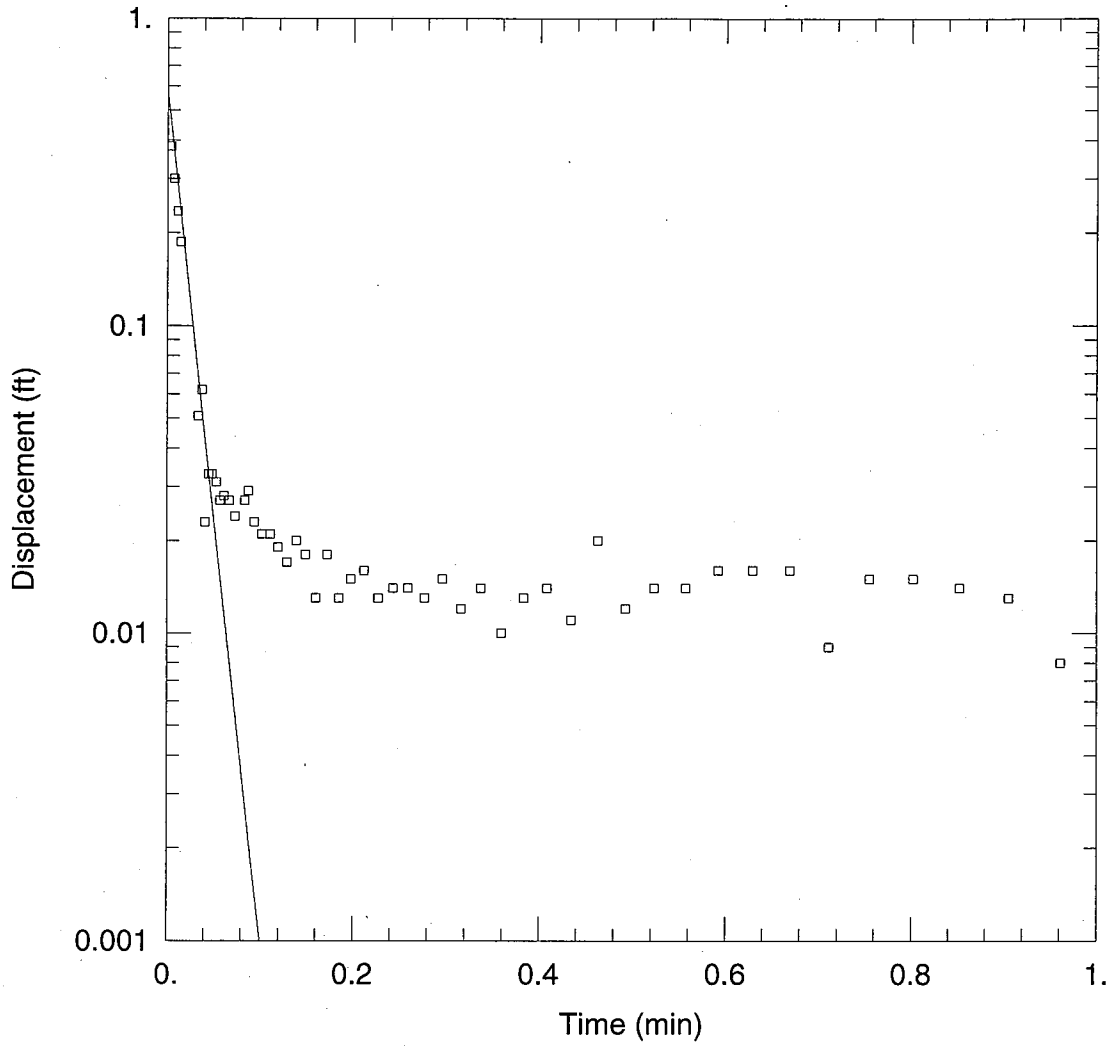
Saturated Thickness: 70.72 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.92 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.92 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 343.1 ft/day
y0 = 0.8075 ft



SA-MW-128S REDO - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128S REDO_Fall1.aqt
Date: 01/05/10 Time: 17:10:50

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128S
Test Date: 9/16/09

AQUIFER DATA

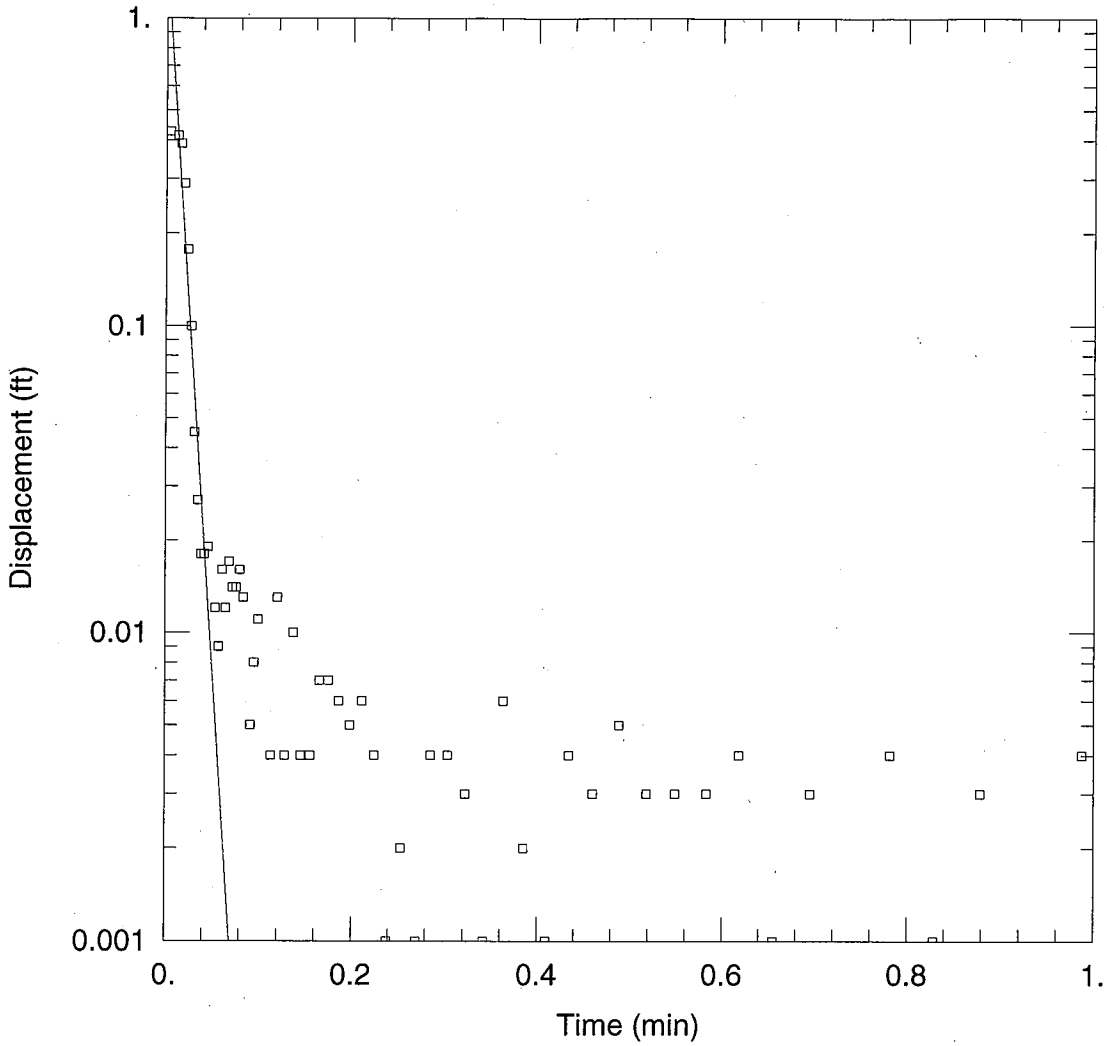
Saturated Thickness: 70.65 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.85 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.85 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 367.1 ft/day
y0 = 0.5762 ft



SA-MW-128S REDO - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128S REDO_Rise1.aqt
Date: 01/05/10 Time: 17:10:56

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128S
Test Date: 9/16/09

AQUIFER DATA

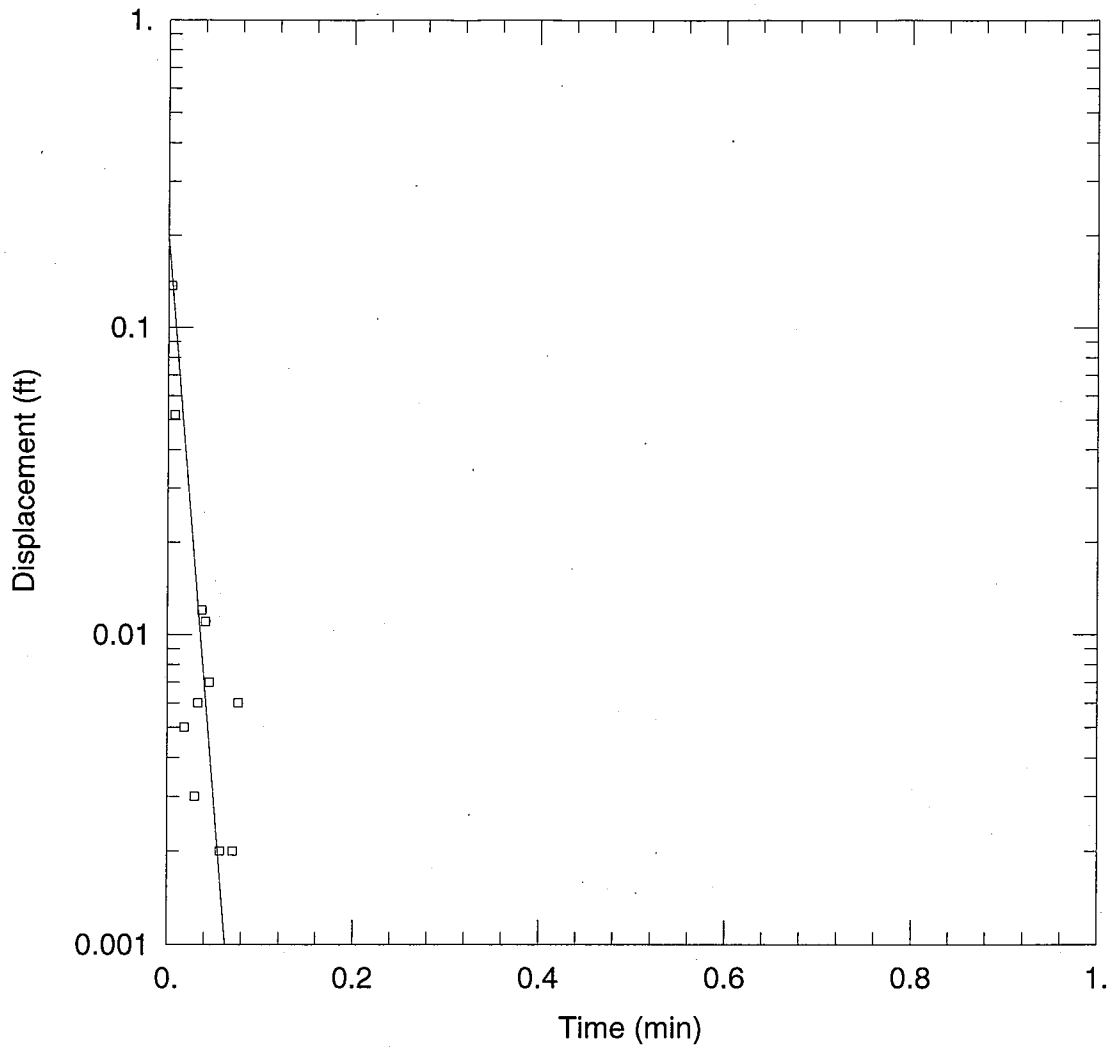
Saturated Thickness: 70.65 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.85 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.85 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 610.6 ft/day
y0 = 1.565 ft



SA-MW-128S REDO - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128S REDO_Fall2.aqt
Date: 01/05/10 Time: 17:11:08

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128S
Test Date: 9/16/09

AQUIFER DATA

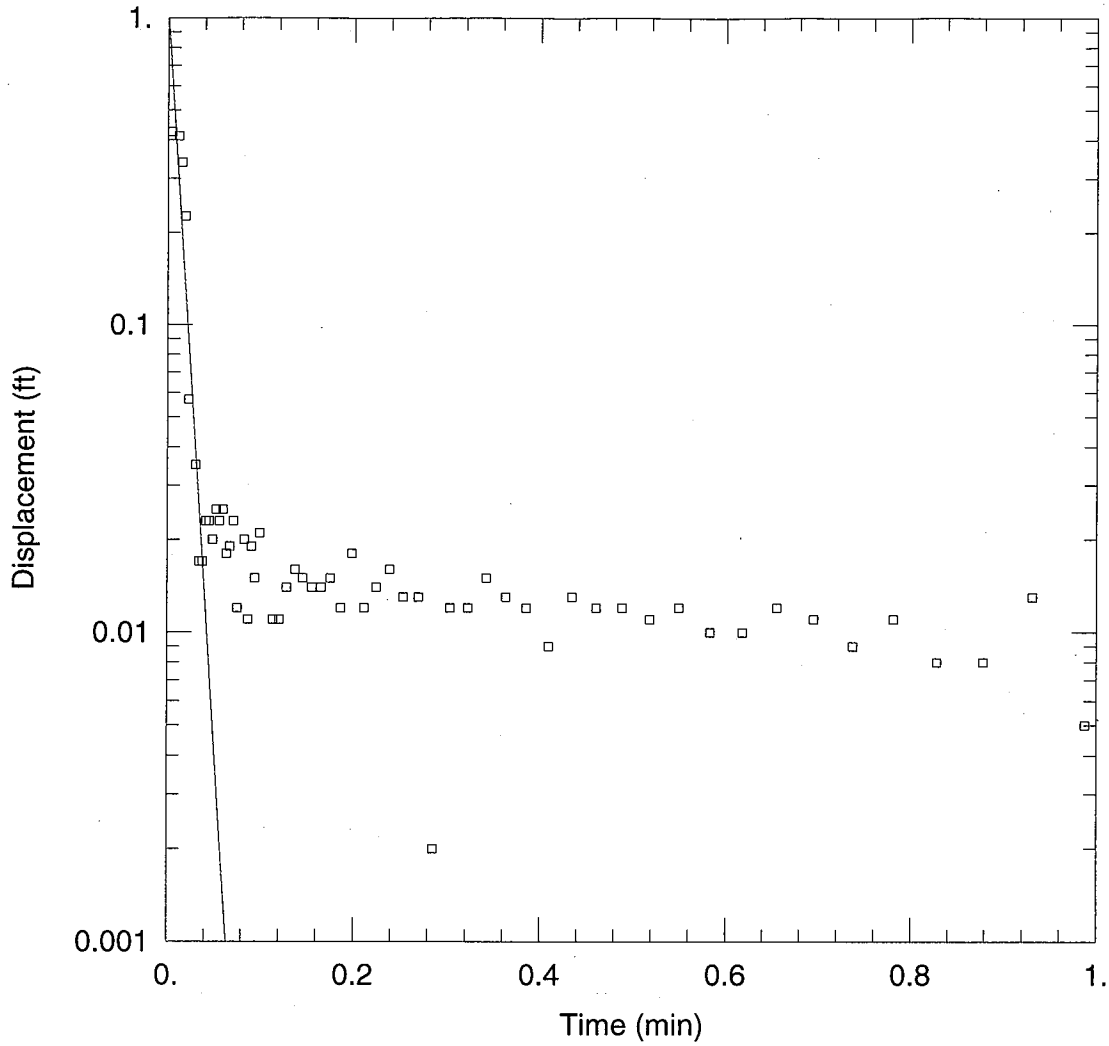
Saturated Thickness: 70.65 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.85 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.85 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 487.2 ft/day
y0 = 0.1979 ft



SA-MW-128S REDO - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128S REDO_Rise2.aqt
Date: 01/05/10 Time: 17:11:20

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128S
Test Date: 9/16/09

AQUIFER DATA

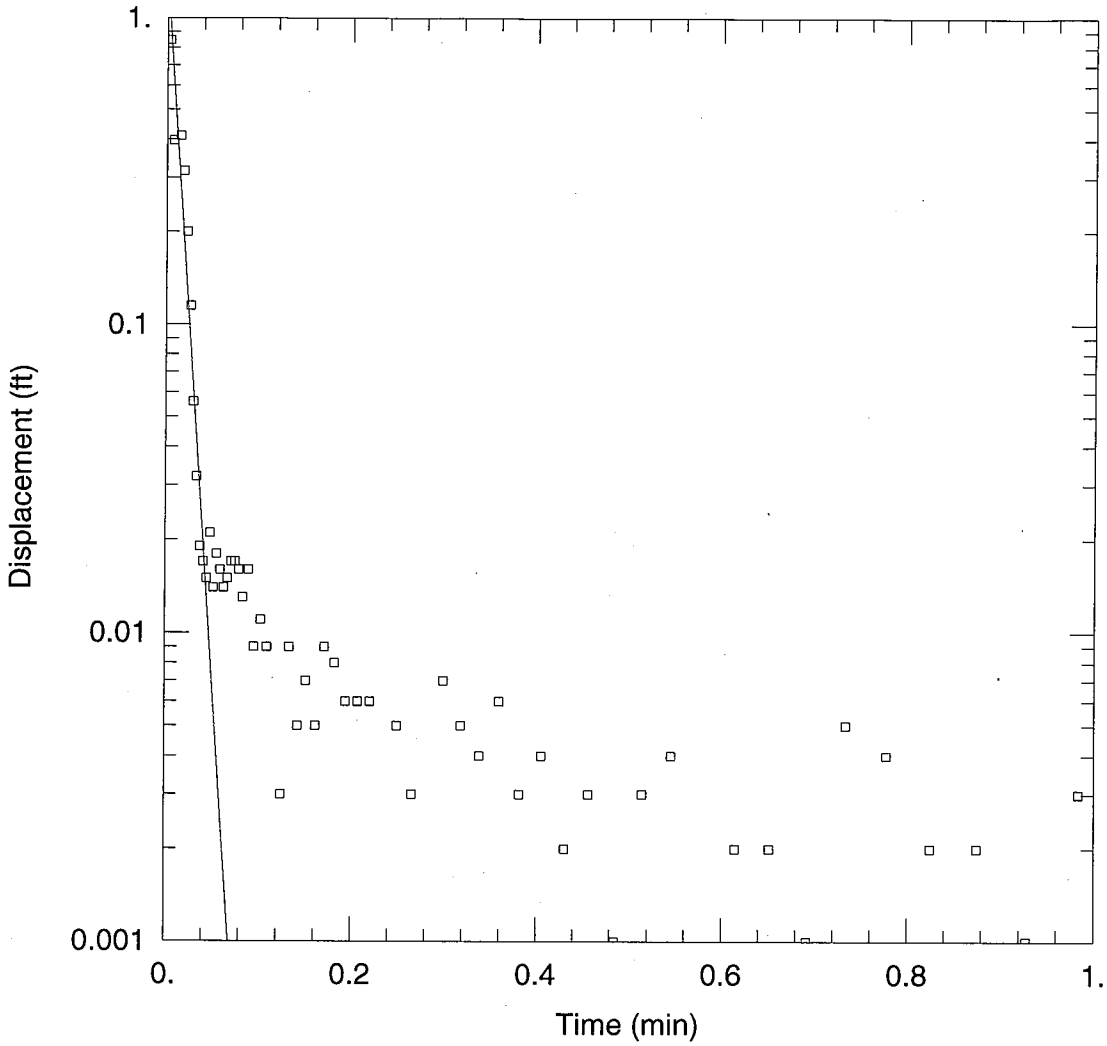
Saturated Thickness: 70.65 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.85 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.85 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 628.7 ft/day
y0 = 1.043 ft



SA-MW-128S REDO - RISING HEAD #3

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128S REDO_Rise3.aqt
Date: 01/05/10 Time: 17:11:29

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128S
Test Date: 9/16/09

AQUIFER DATA

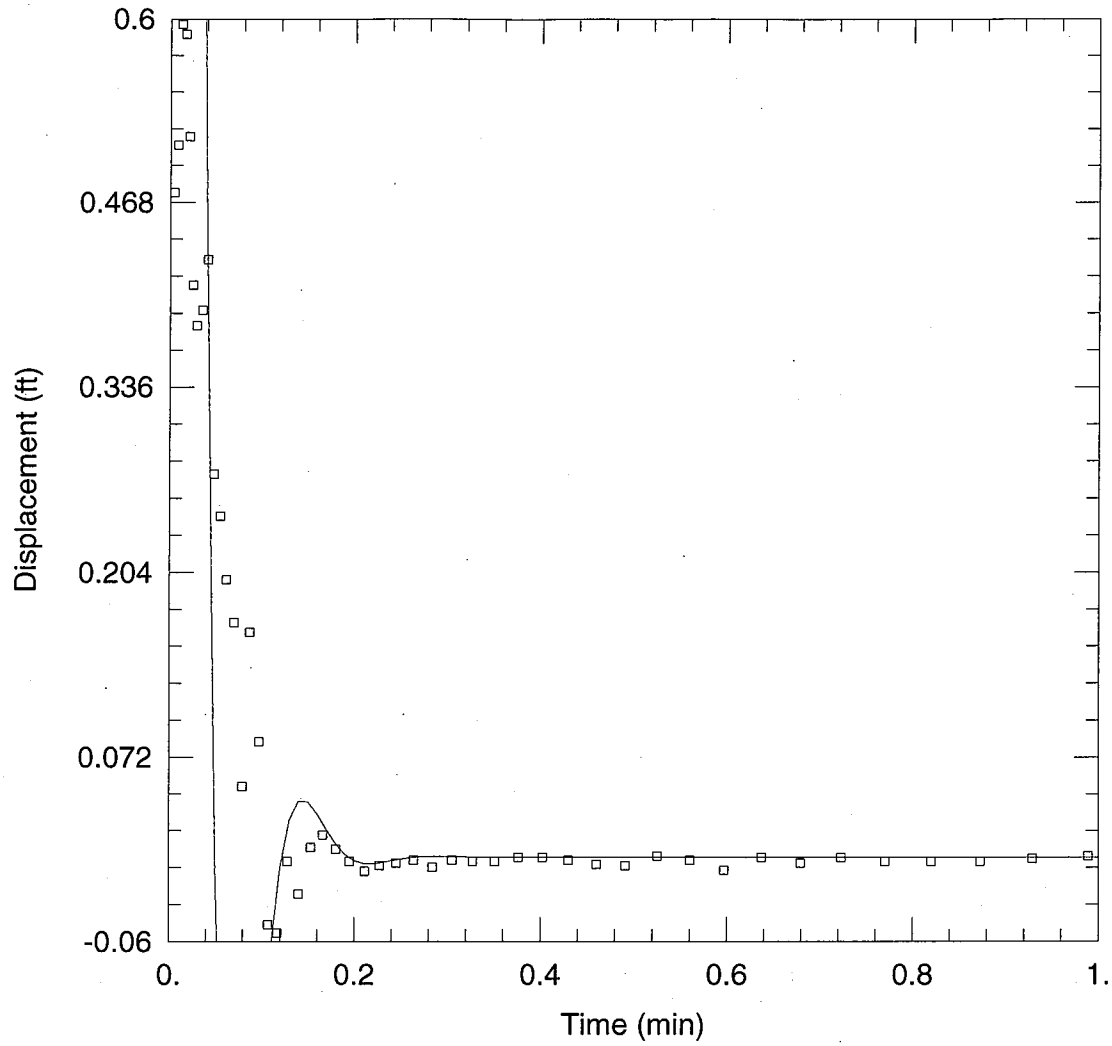
Saturated Thickness: 70.65 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 9.85 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 9.85 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 600.7 ft/day
y0 = 1.341 ft



SA-MW-128I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128I_Fall1.aqt
Date: 01/05/10 Time: 17:11:44

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128I
Test Date: 9/9/2009

AQUIFER DATA

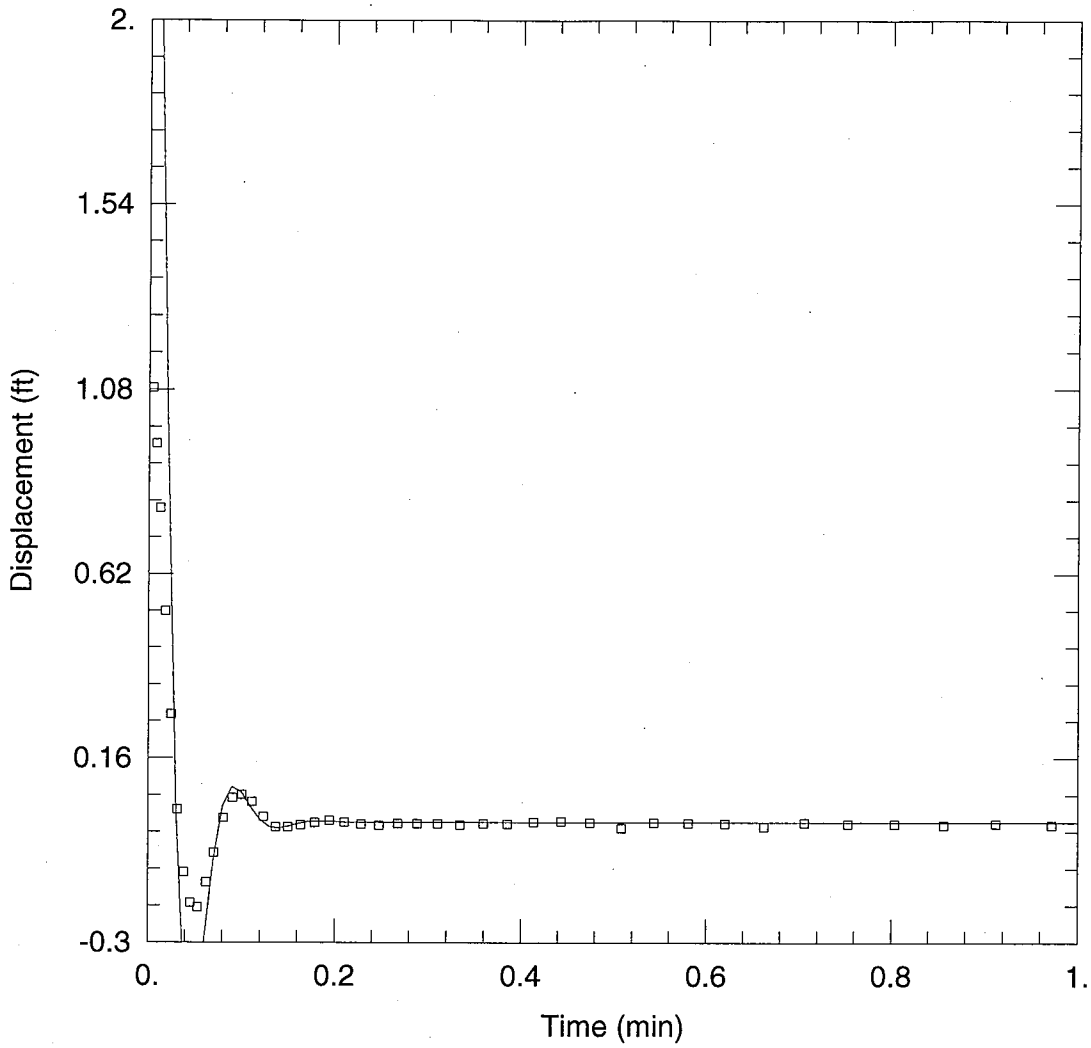
Saturated Thickness: 70.24 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 32.24 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 32.24 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 61.34 ft/day
C(D) = 0.5633



SA-MW-128I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128I_Rise1.aqt
Date: 01/05/10 Time: 17:11:52

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128I
Test Date: 9/9/2009

AQUIFER DATA

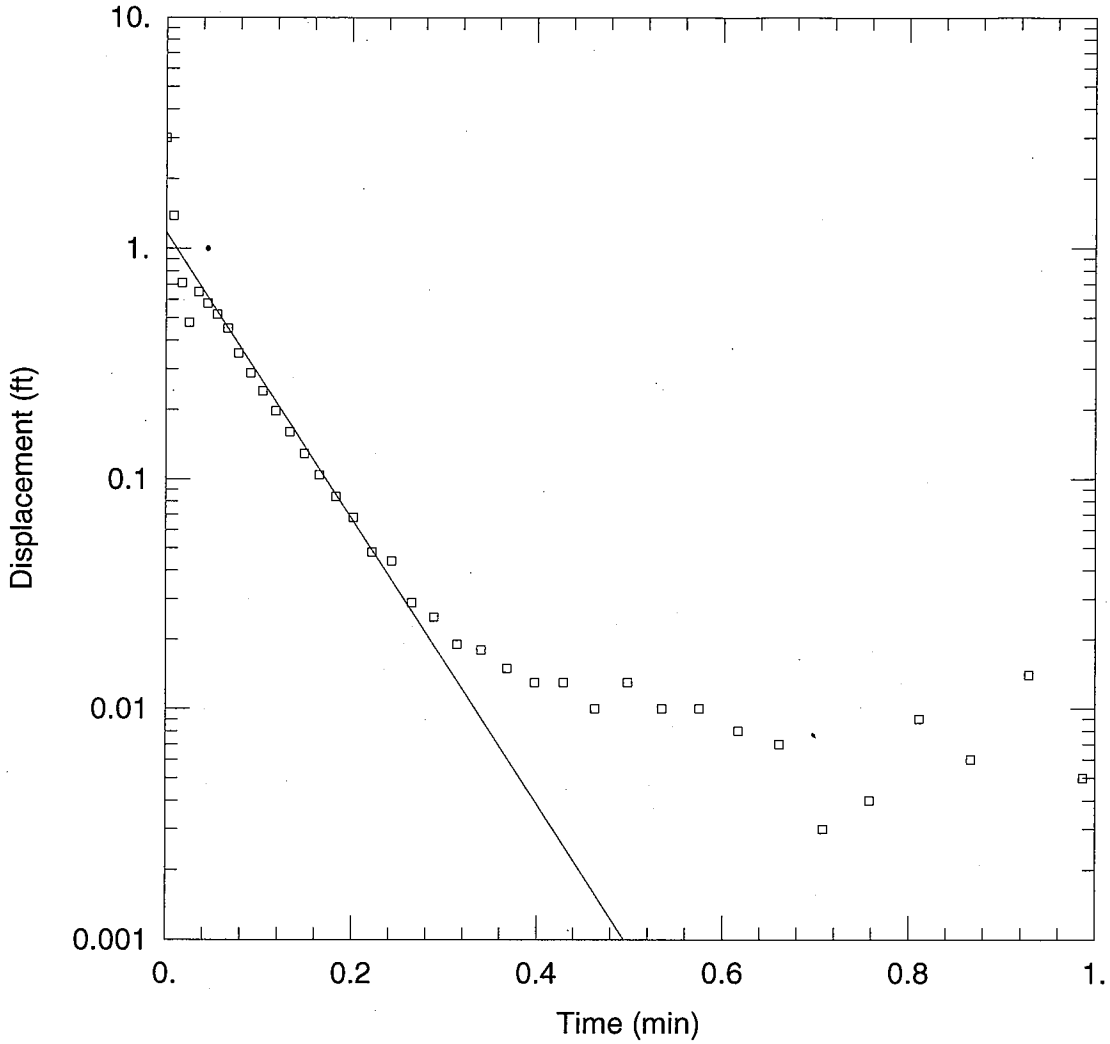
Saturated Thickness: 70.24 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 32.24 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 32.24 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 105.6 ft/day
C(D) = 0.4892



SA-MW-128D - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128D_Fall1.aqt
Date: 01/05/10 Time: 17:12:32

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128D
Test Date: 9/9/09

AQUIFER DATA

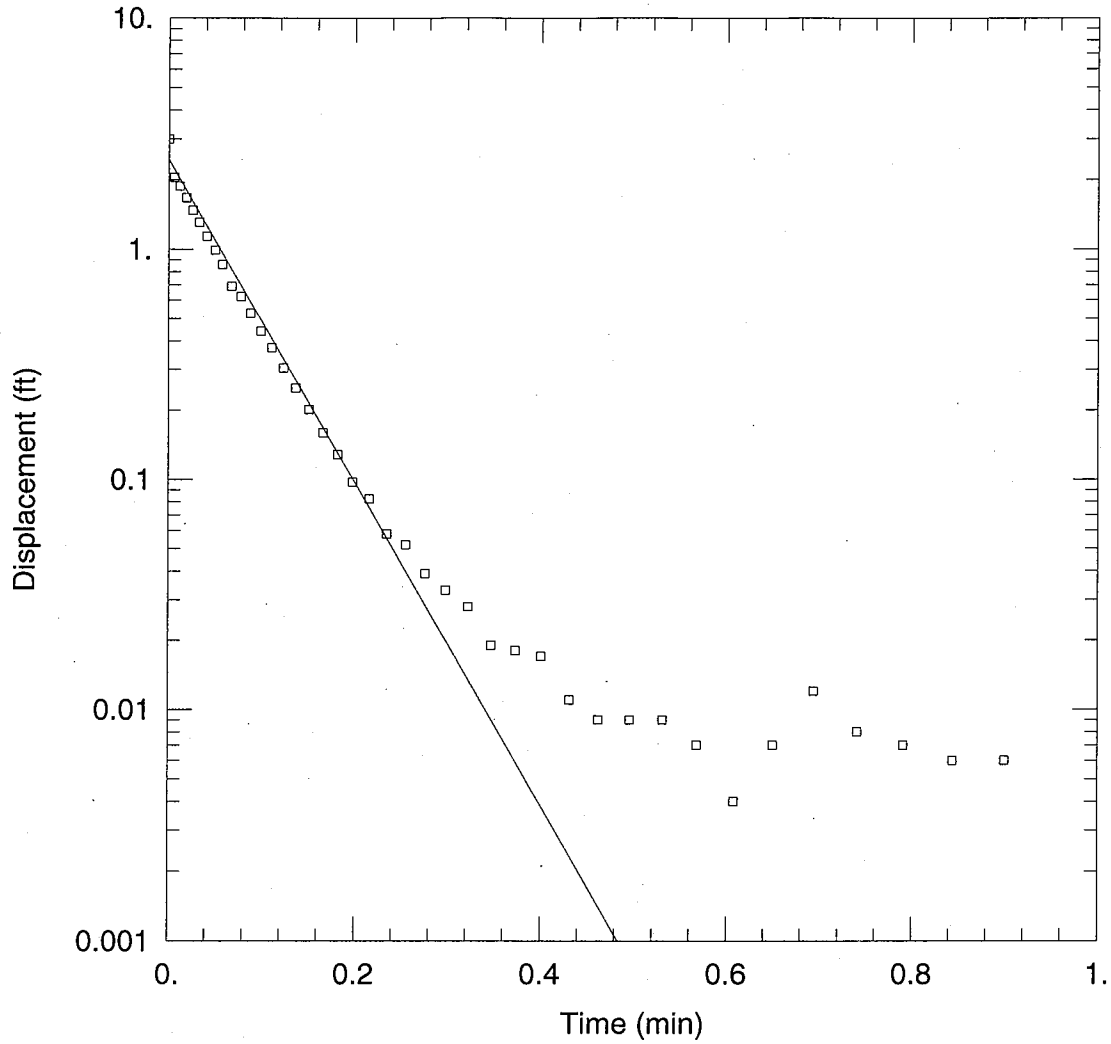
Saturated Thickness: 70.23 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 60.63 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 60.63 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 116.5 ft/day
y0 = 1.171 ft



SA-MW-128D - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-128D_Rise1.aqt
Date: 01/05/10 Time: 17:12:41

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-128D
Test Date: 9/9/09

AQUIFER DATA

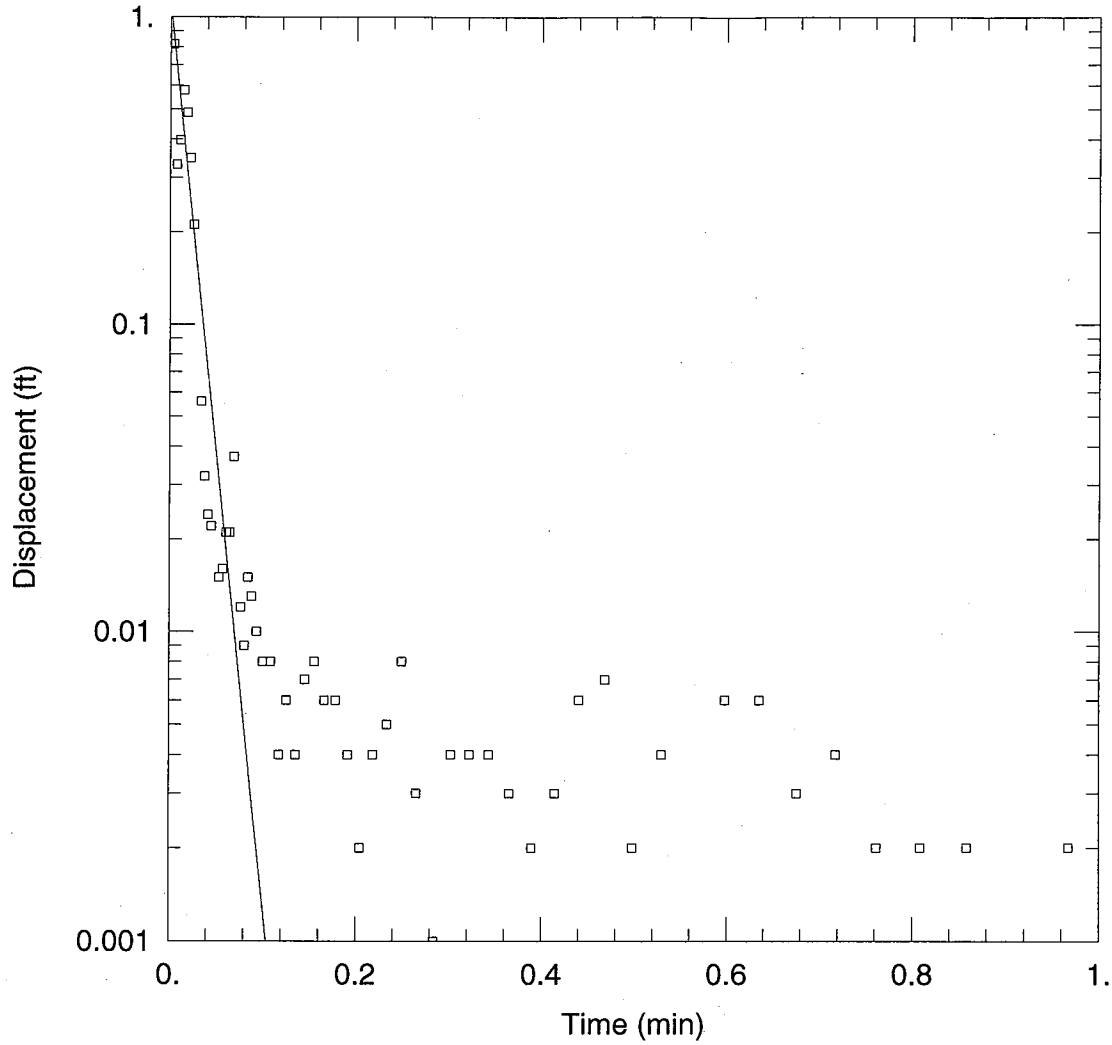
Saturated Thickness: 70.23 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-128D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 60.63 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 60.63 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 131.4 ft/day
y0 = 2.441 ft



SA-MW-130S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130S_Rise1.aqt
Date: 01/05/10 Time: 17:13:47

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130S
Test Date: 9/15/09

AQUIFER DATA

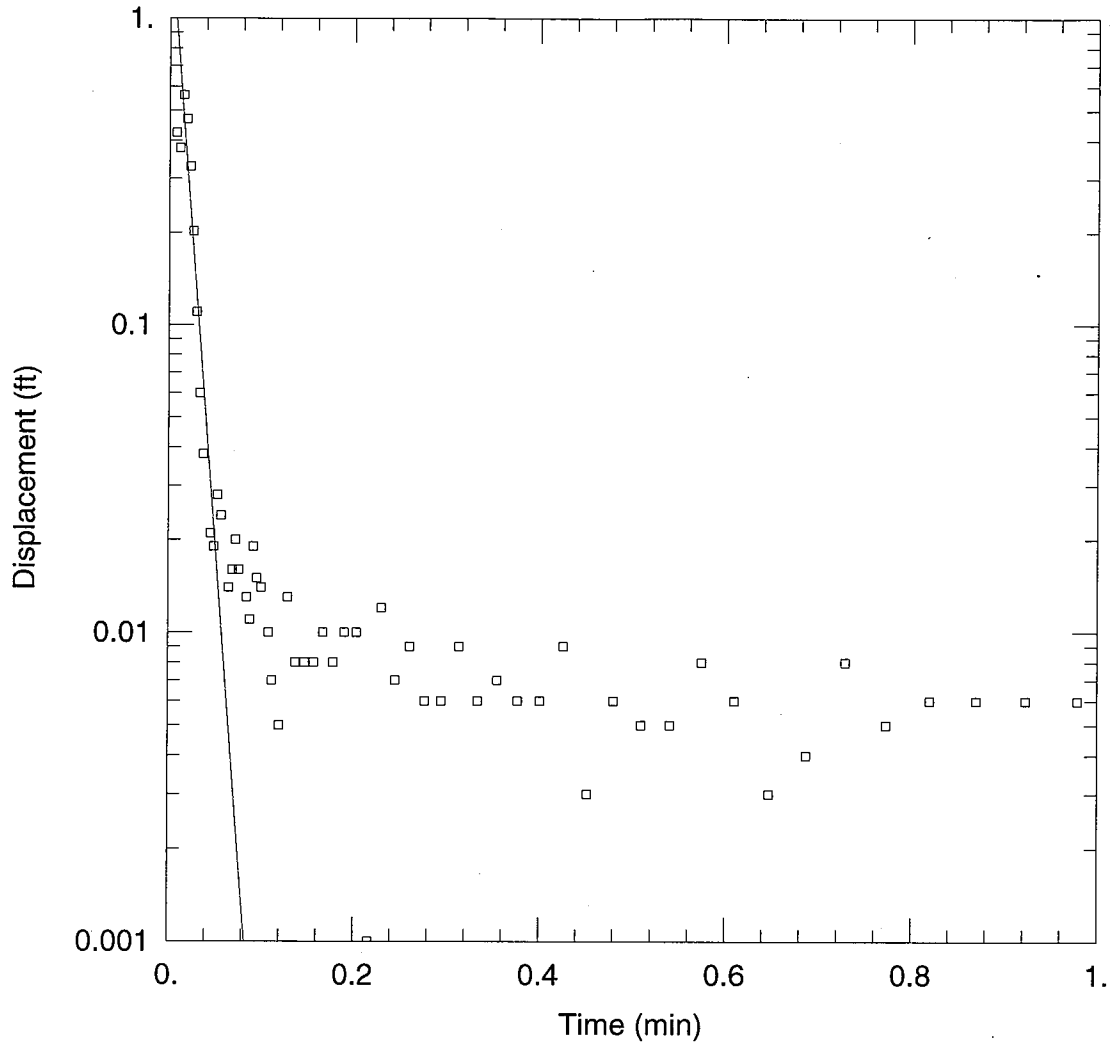
Saturated Thickness: 66.38 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 8.03 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 8.03 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 373.7 ft/day
y0 = 1.113 ft



SA-MW-130S - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130S_Rise2.aqt
Date: 01/05/10 Time: 17:13:55

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130S
Test Date: 9/15/09

AQUIFER DATA

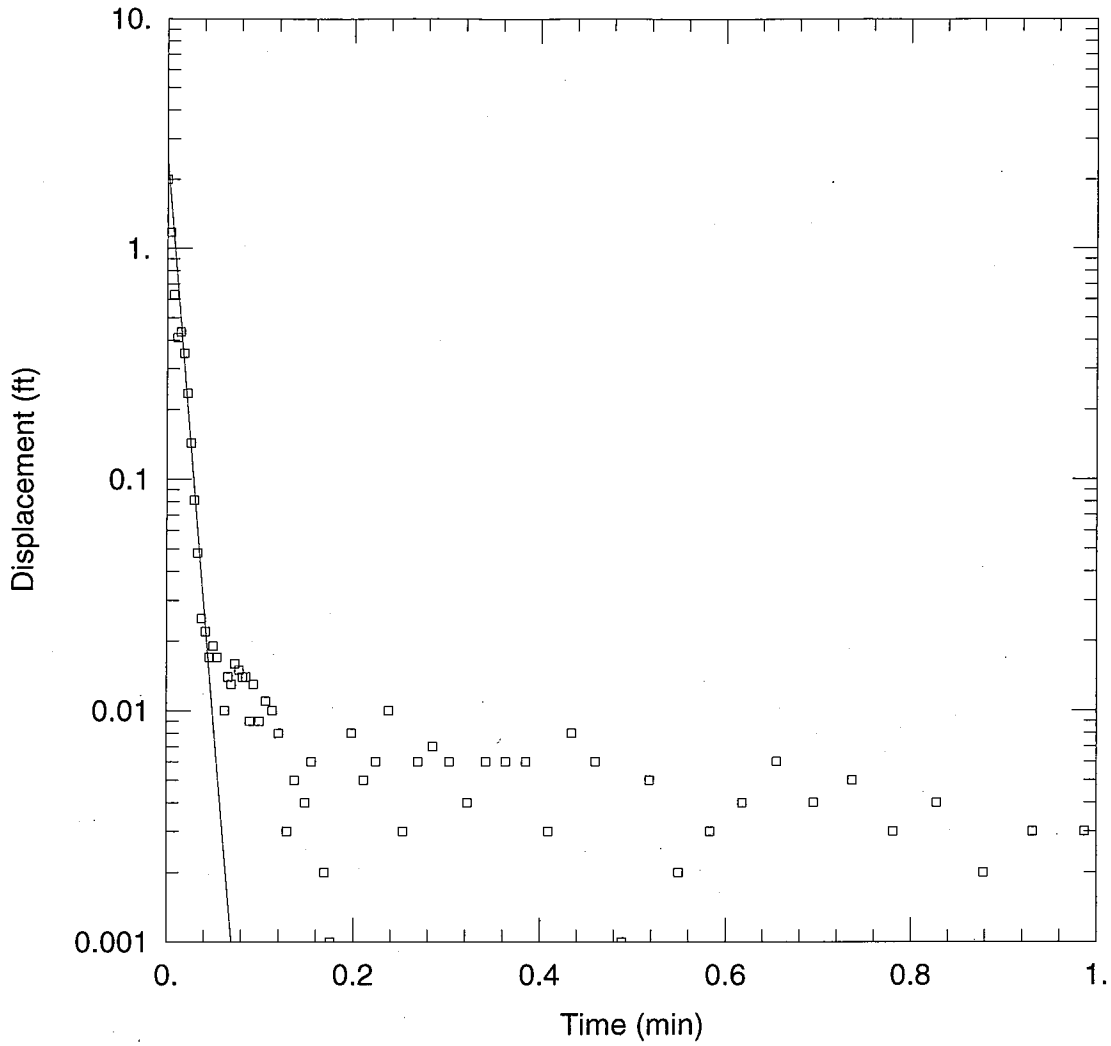
Saturated Thickness: 66.38 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 8.03 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 8.03 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 505.1 ft/day
y0 = 1.918 ft



SA-MW-130S - RISING HEAD #3

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130S_Rise3.aqt
Date: 01/05/10 Time: 17:14:02

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130S
Test Date: 9/15/09

AQUIFER DATA

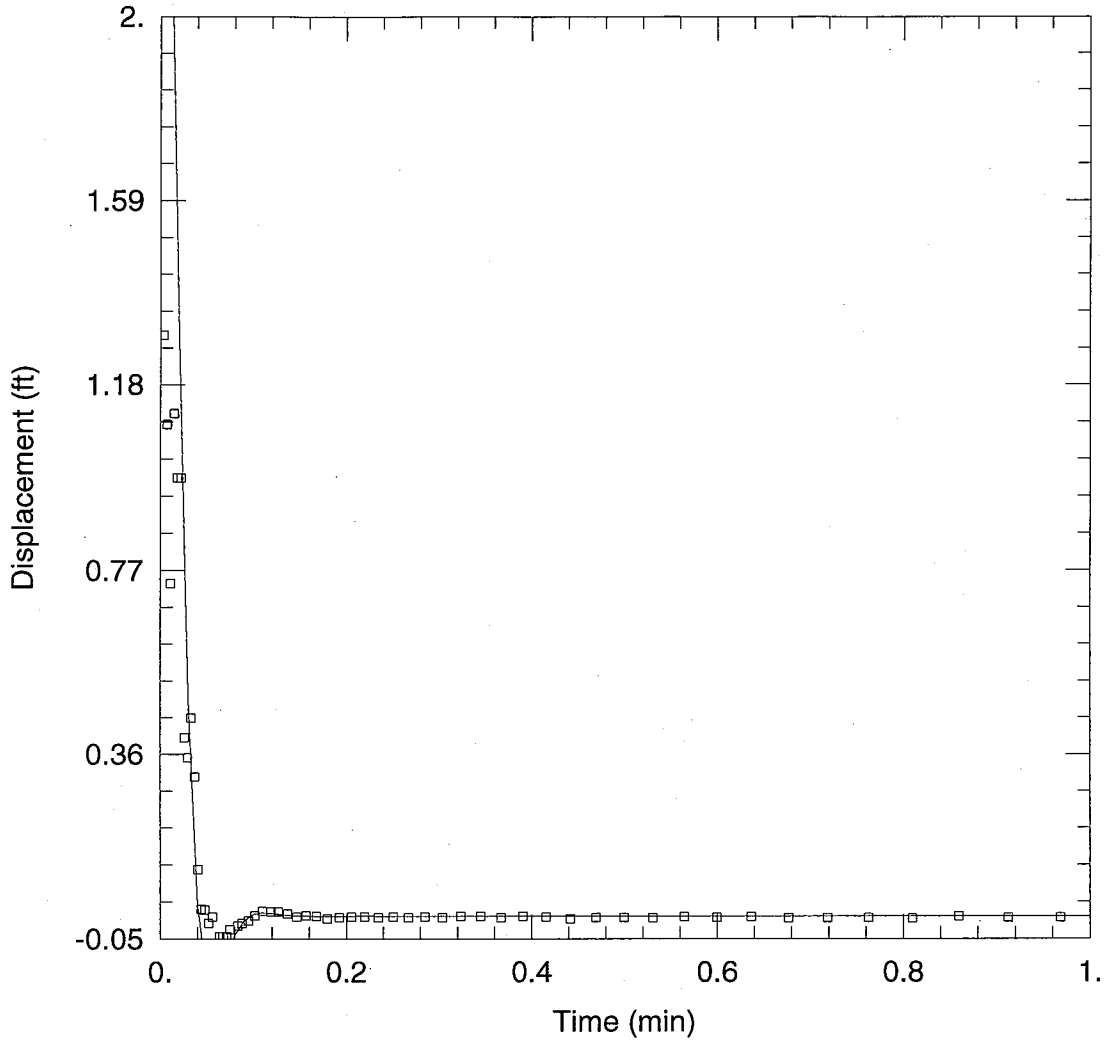
Saturated Thickness: 66.38 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 8.03 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 8.03 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 622.4 ft/day
y0 = 2.485 ft



SA-MW-130I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130I_Fall1.aqt
Date: 01/05/10 Time: 17:14:26

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130I
Test Date: 9/15/2009

AQUIFER DATA

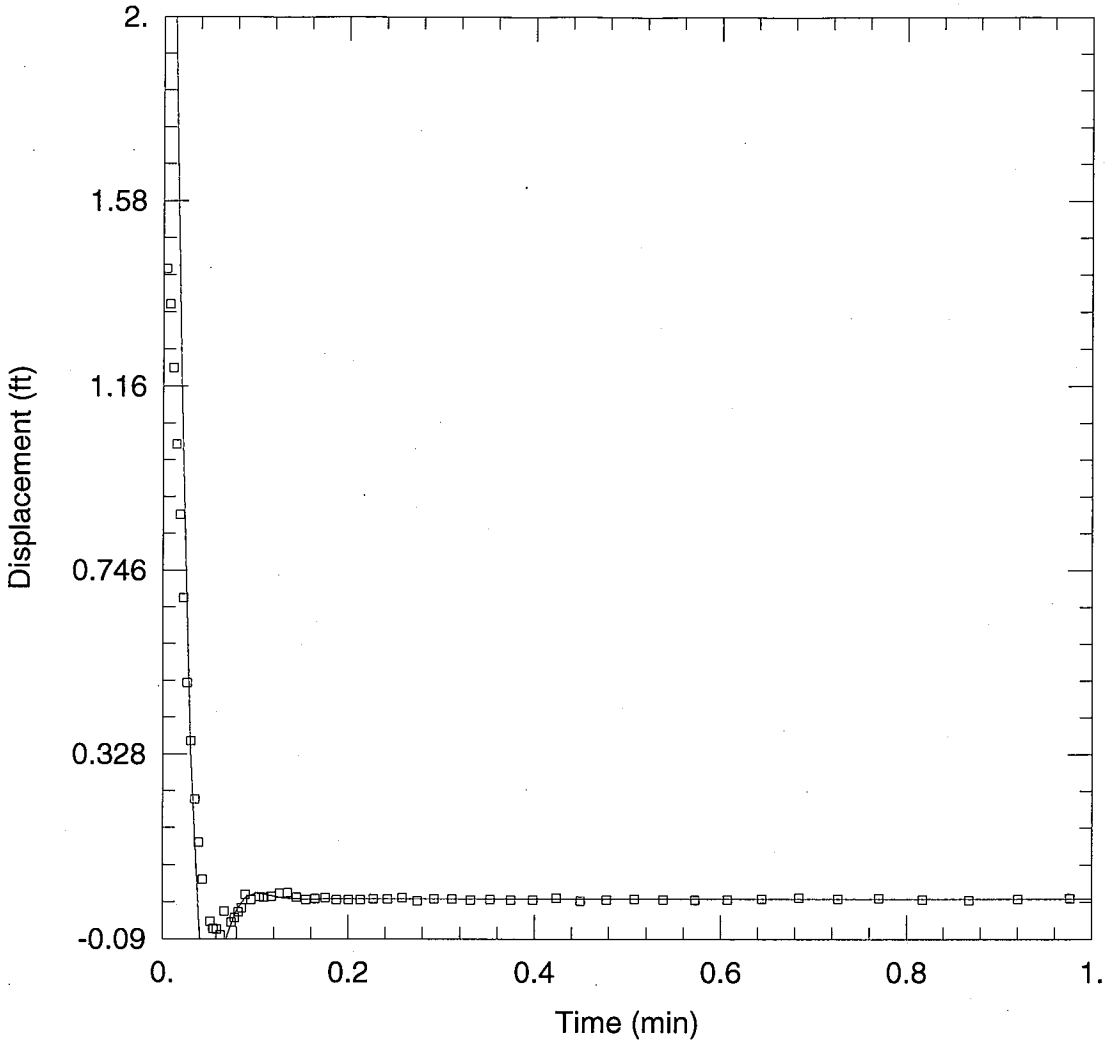
Saturated Thickness: 66.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 34.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 34.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 75.91 ft/day
C(D) = 0.6924



SA-MW-130I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130I_Rise1.aqt
Date: 01/05/10 Time: 17:14:46

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130I
Test Date: 9/15/2009

AQUIFER DATA

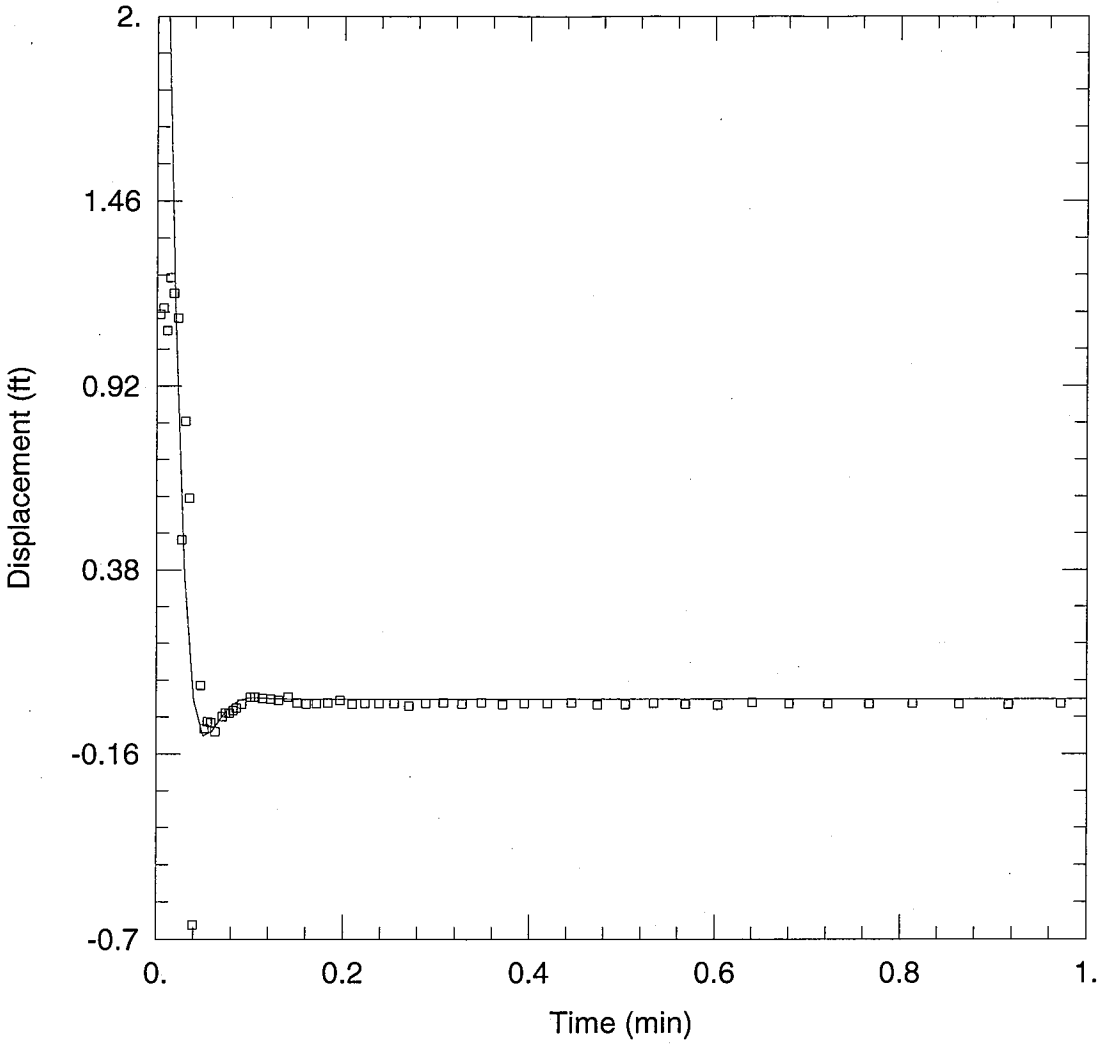
Saturated Thickness: 66.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 34.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 34.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 83.29 ft/day
C(D) = 0.6582



SA-MW-130I - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130I_Fall2.aqt
Date: 01/05/10 Time: 17:14:55

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130I
Test Date: 9/15/2009

AQUIFER DATA

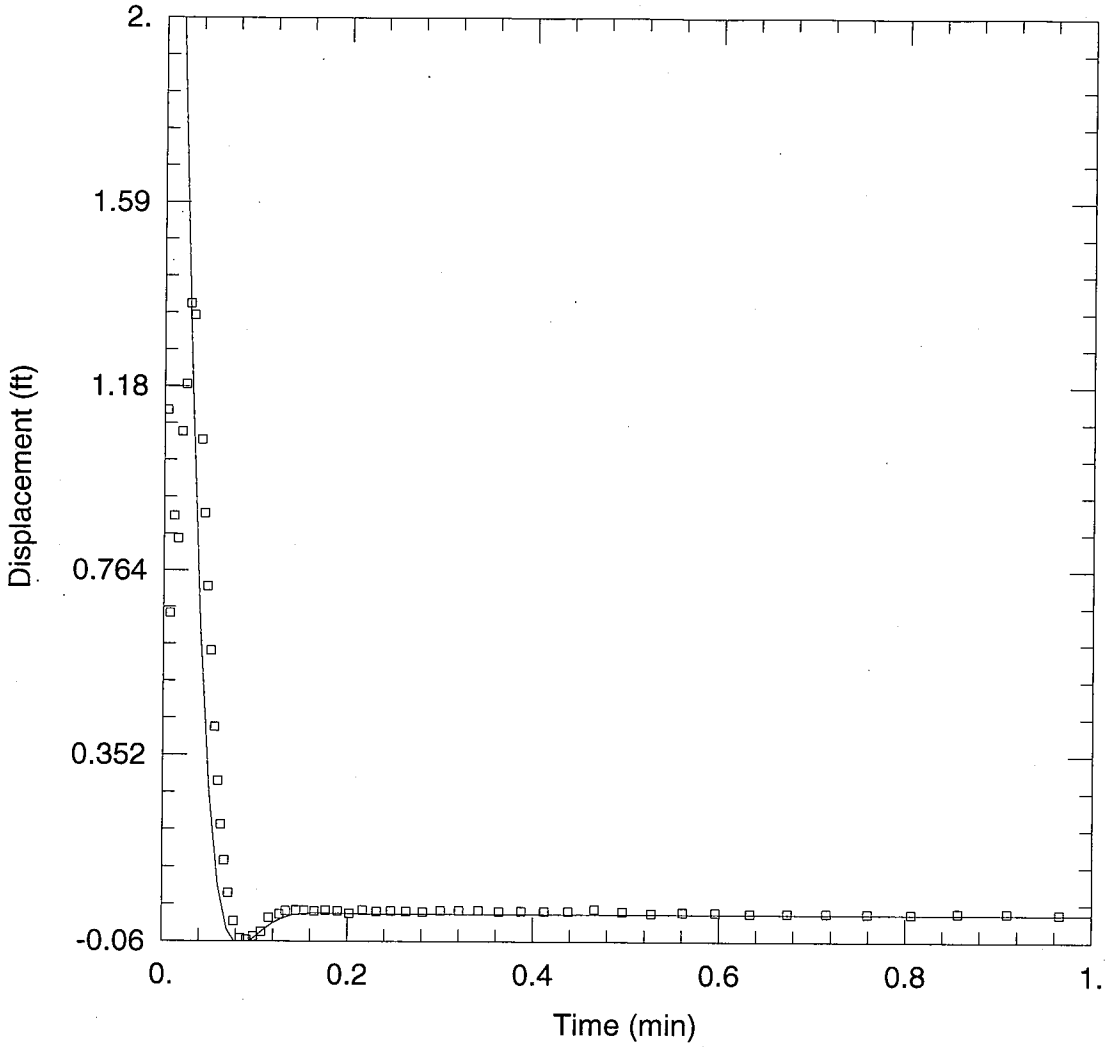
Saturated Thickness: 66.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 34.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 34.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 79.8 ft/day
C(D) = 0.7245



SA-MW-130I - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-130I_Rise2.aqt
Date: 01/05/10 Time: 17:15:03

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-130I
Test Date: 9/15/2009

AQUIFER DATA

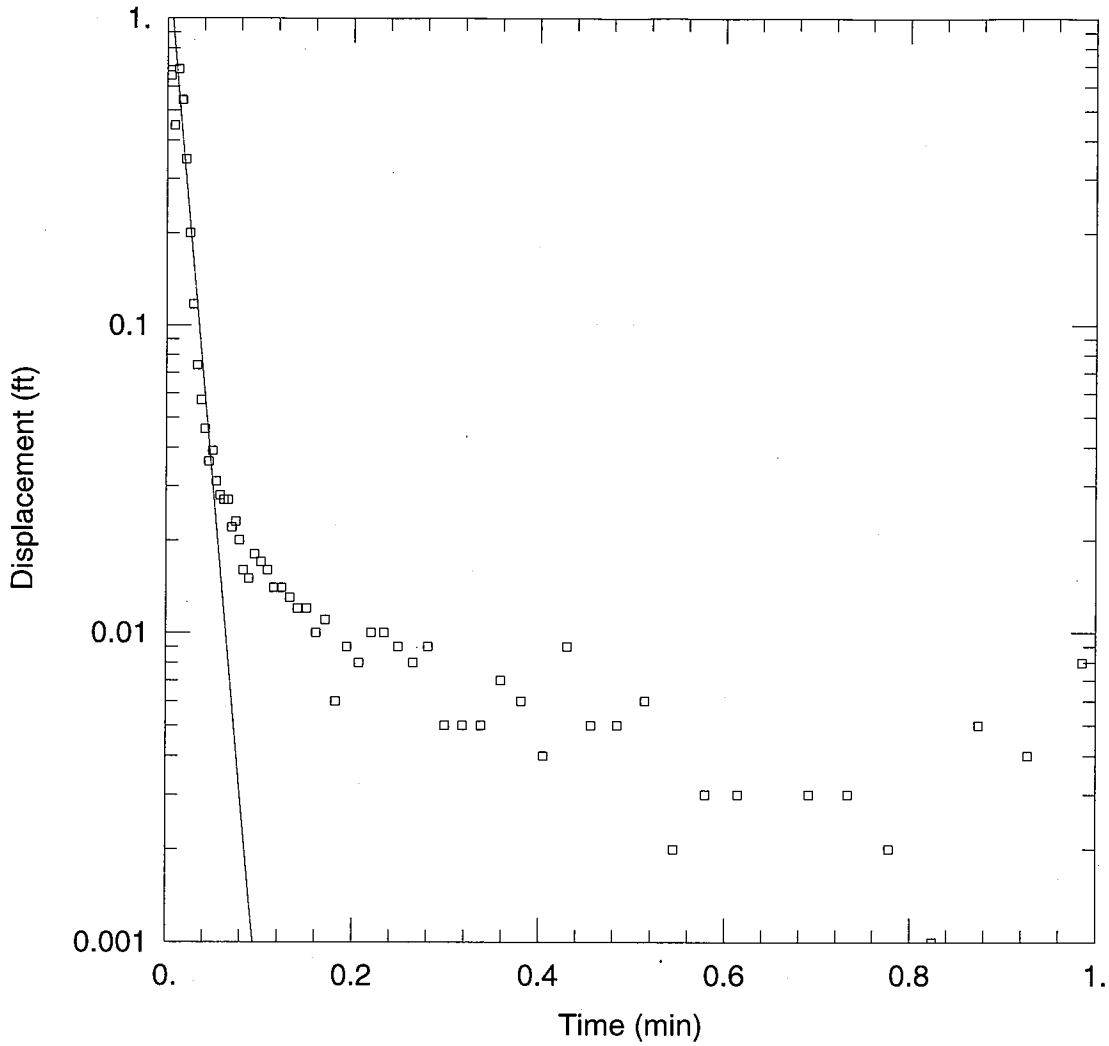
Saturated Thickness: 66.6 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-130I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 34.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 34.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 50.46 ft/day
C(D) = 0.7674



SA-MW-131S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131S_Rise1.aqt
Date: 01/05/10 Time: 17:16:44

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131S
Test Date: 9/15/09

AQUIFER DATA

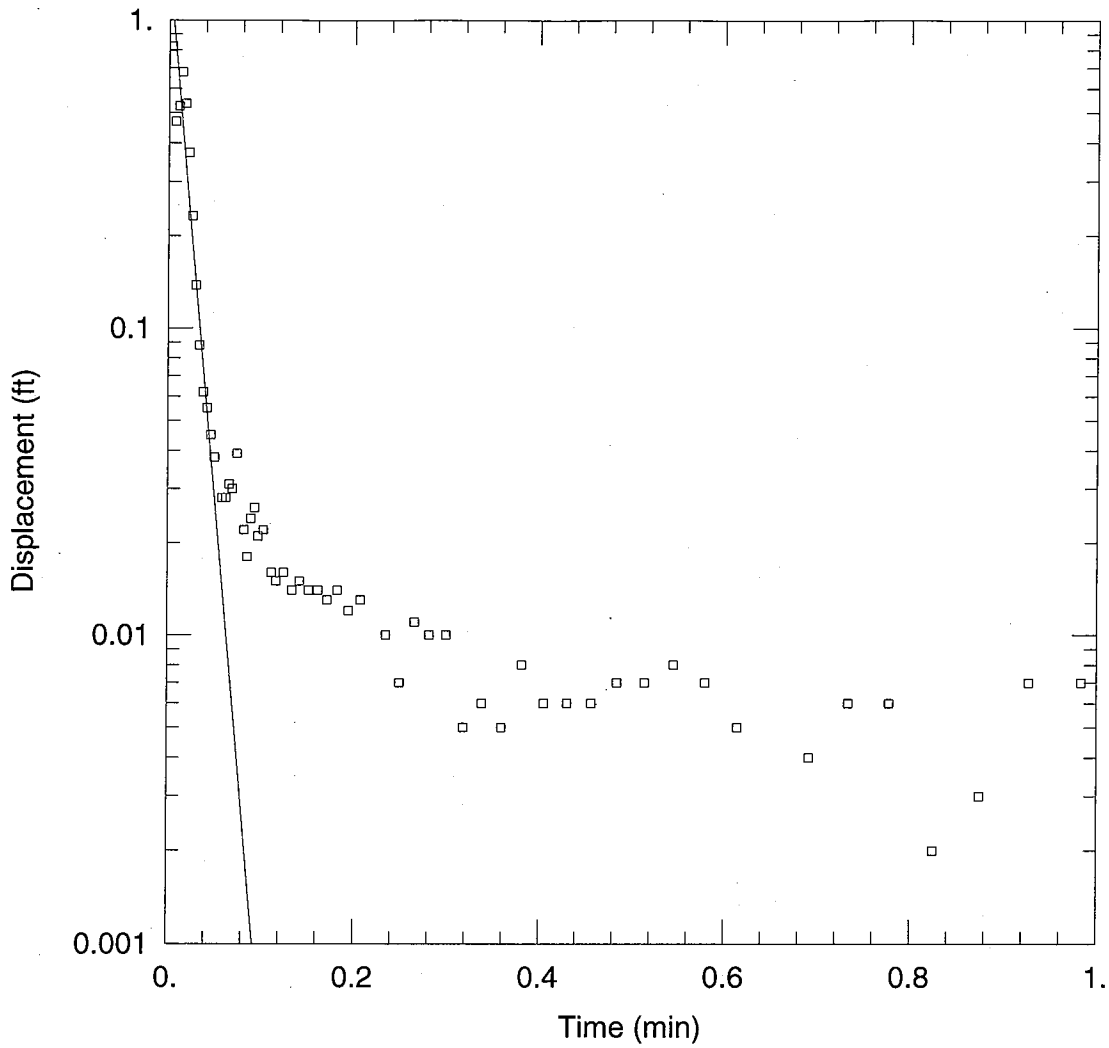
Saturated Thickness: 71.12 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 7.42 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 7.42 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 423.5 ft/day
y0 = 1.535 ft



SA-MW-131S - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131S_Rise2.aqt
Date: 01/05/10 Time: 17:16:51

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131S
Test Date: 9/15/09

AQUIFER DATA

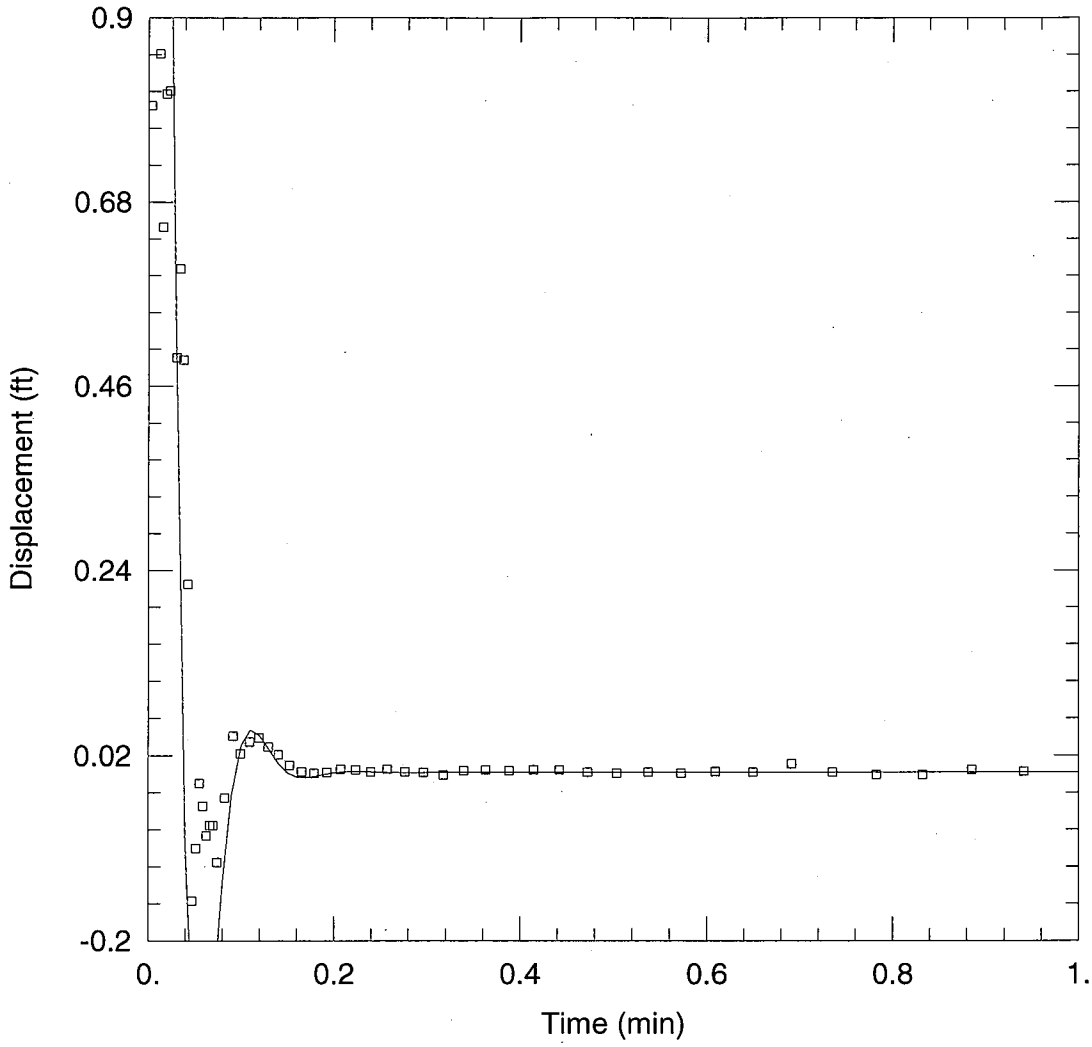
Saturated Thickness: 71.12 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131S)

Initial Displacement: 2. ft
Total Well Penetration Depth: 7.42 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 7.42 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 426.7 ft/day
y0 = 1.451 ft



SA-MW-131I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131I_Fall1.aqt
Date: 01/05/10 Time: 17:17:06

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131I
Test Date: 9/15/2009

AQUIFER DATA

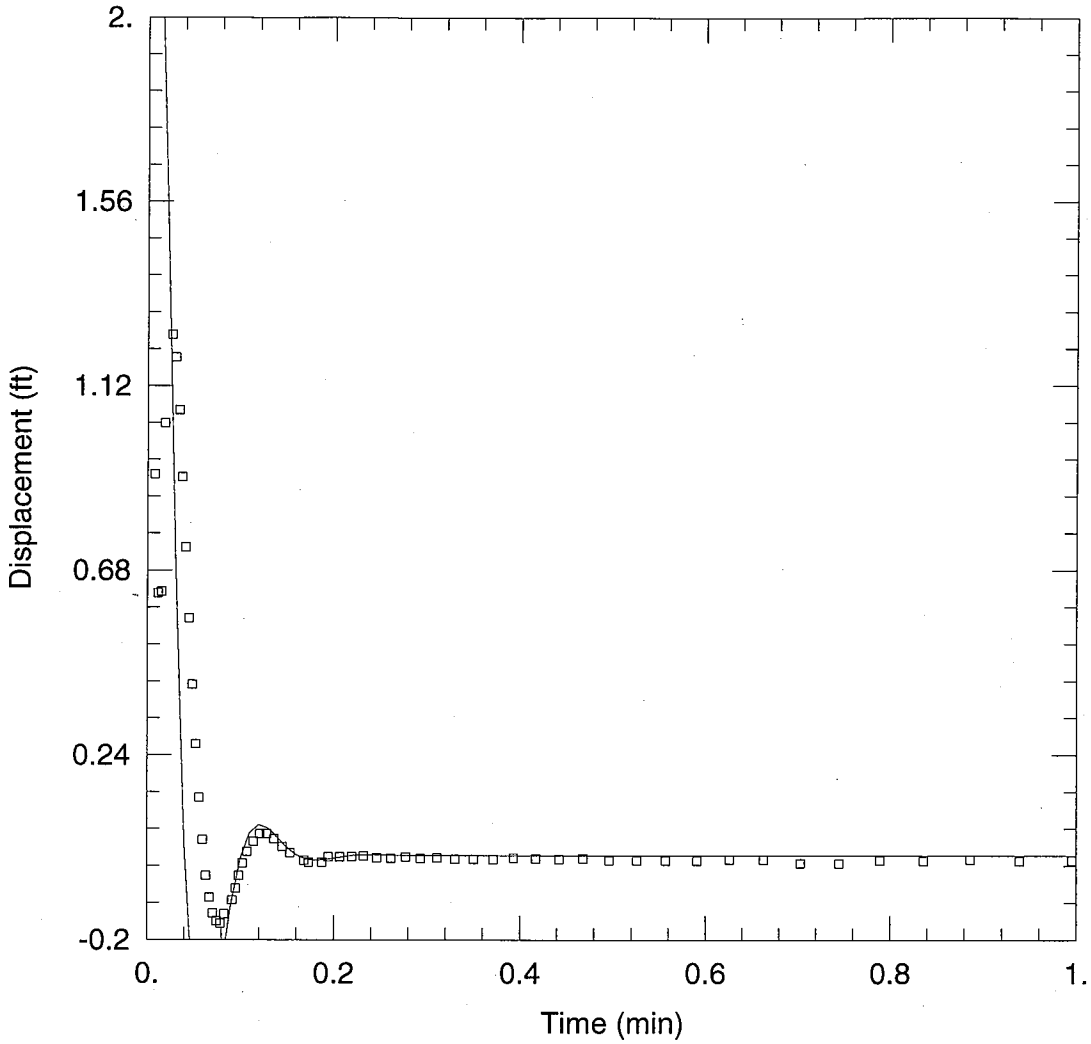
Saturated Thickness: 71.47 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 32.97 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 32.97 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 81.2 ft/day
C(D) = 0.5456



SA-MW-131I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131I_Rise1.aqt
Date: 01/05/10 Time: 17:17:20

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131I
Test Date: 9/15/2009

AQUIFER DATA

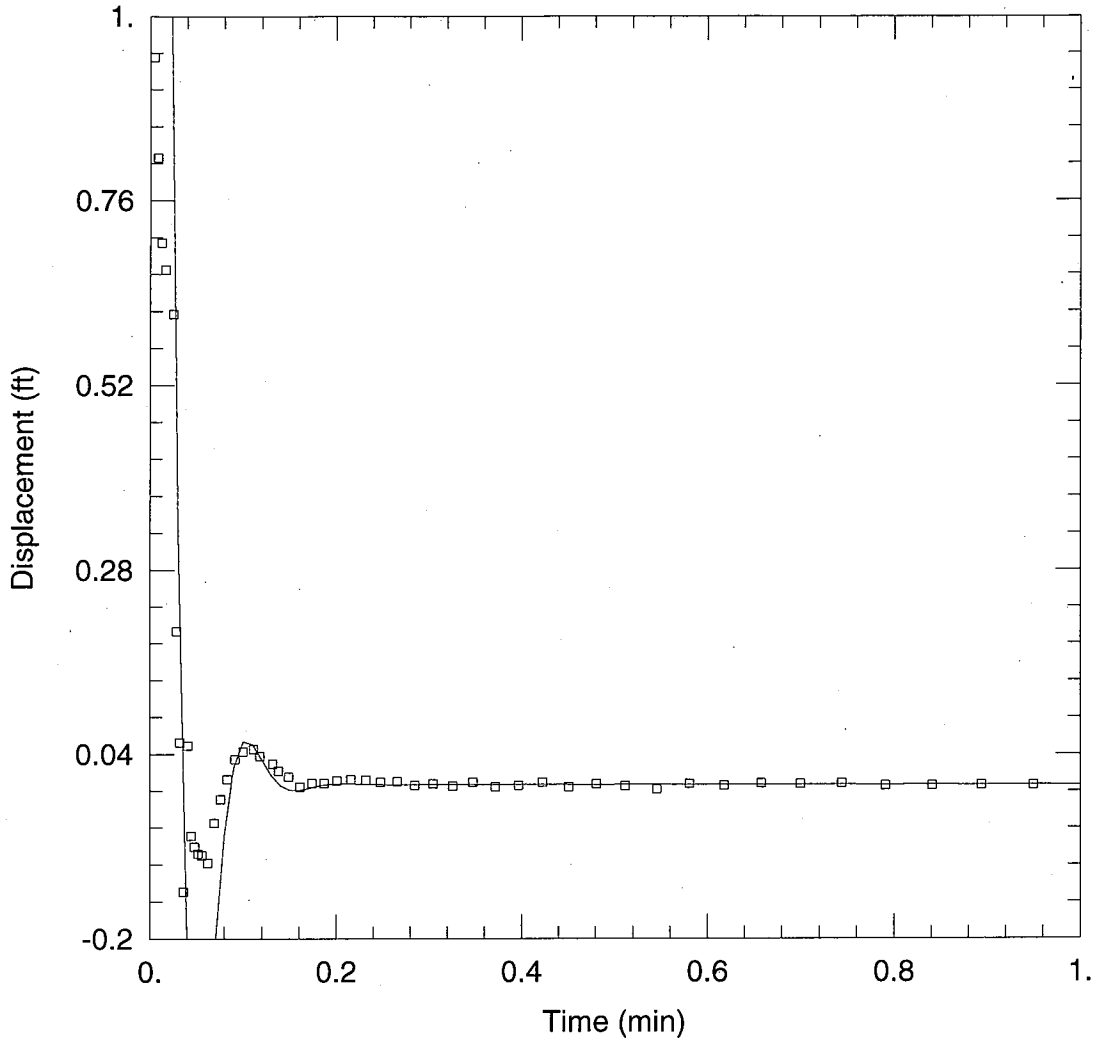
Saturated Thickness: 71.47 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 32.97 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 32.97 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 78.14 ft/day
C(D) = 0.5085



SA-MW-131I - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131I_Fall2.aqt
Date: 01/05/10 Time: 17:17:35

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131I
Test Date: 9/15/2009

AQUIFER DATA

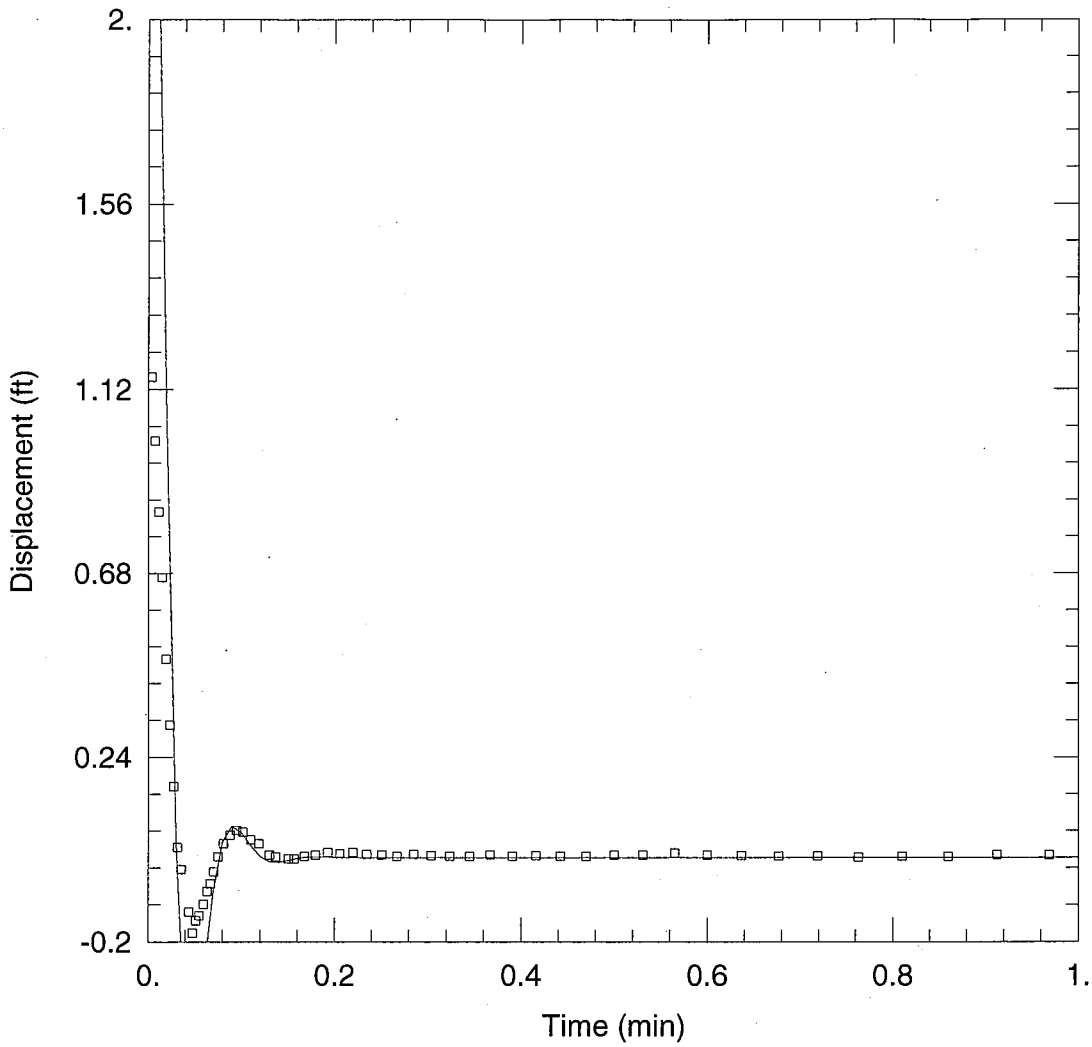
Saturated Thickness: 71.47 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 32.97 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 32.97 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 88.83 ft/day
C(D) = 0.5327



SA-MW-131I - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131I_Rise2.aqt
Date: 01/05/10 Time: 17:17:46

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131I
Test Date: 9/15/2009

AQUIFER DATA

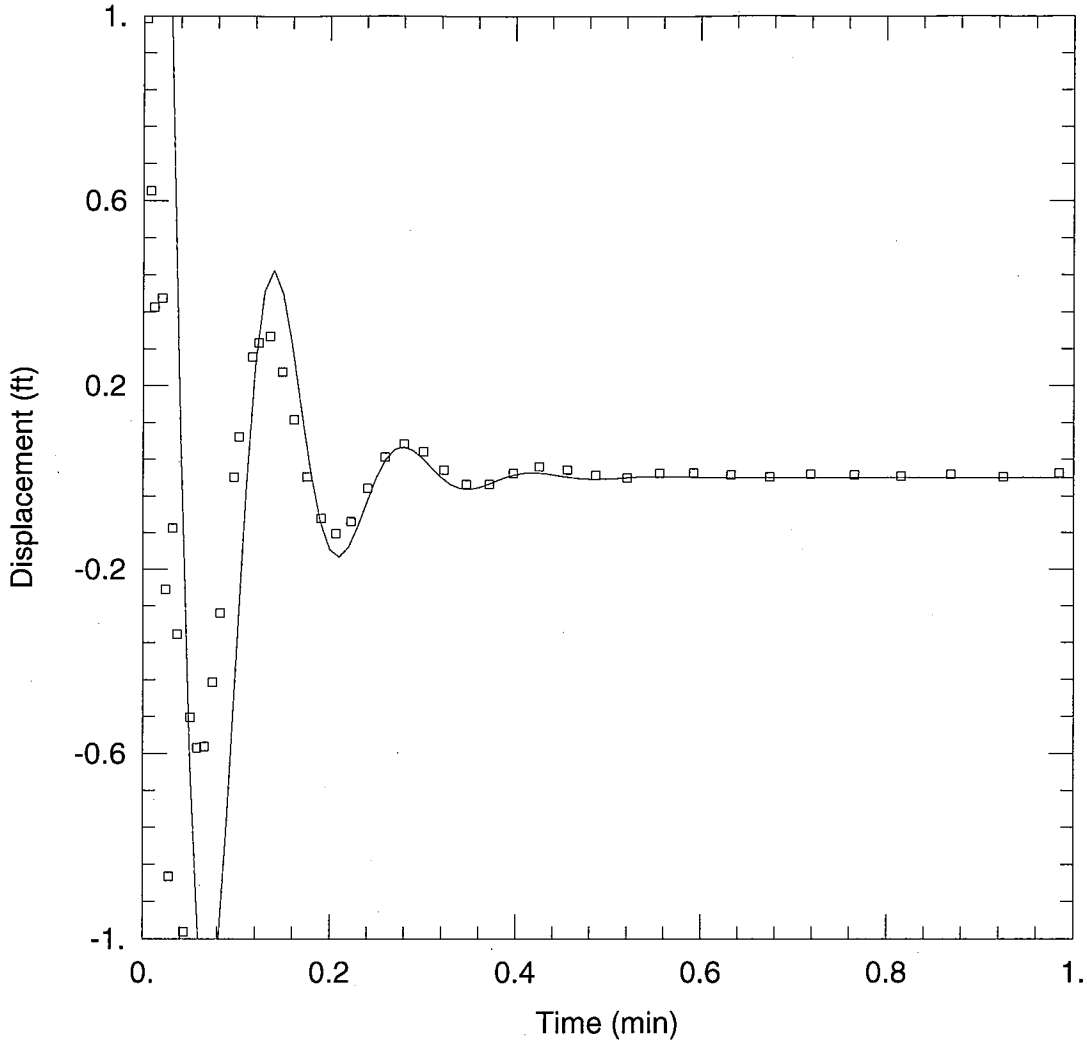
Saturated Thickness: 71.47 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 32.97 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 32.97 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 104.3 ft/day
C(D) = 0.507



SA-MW-131D - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131D_Fall1.aqt
Date: 01/05/10 Time: 17:18:24

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131D
Test Date: 9/15/2009

AQUIFER DATA

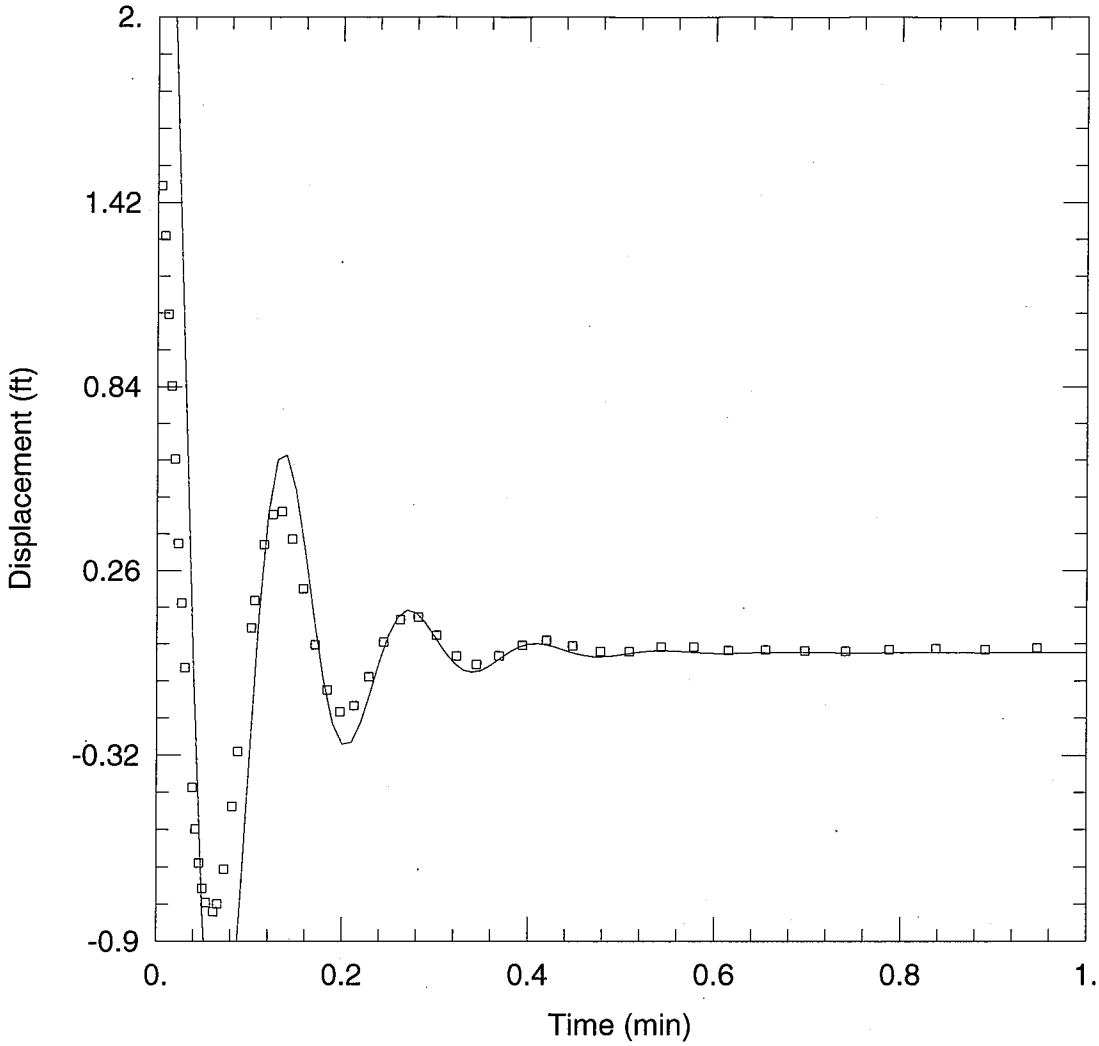
Saturated Thickness: 72.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 64. ft
Casing Radius: 0.0833 ft
Static Water Column Height: 64. ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 126.6 ft/day
C(D) = 0.2892



SA-MW-131D - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131D_Rise1.aqt
Date: 01/05/10 Time: 17:18:36

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131D
Test Date: 9/15/2009

AQUIFER DATA

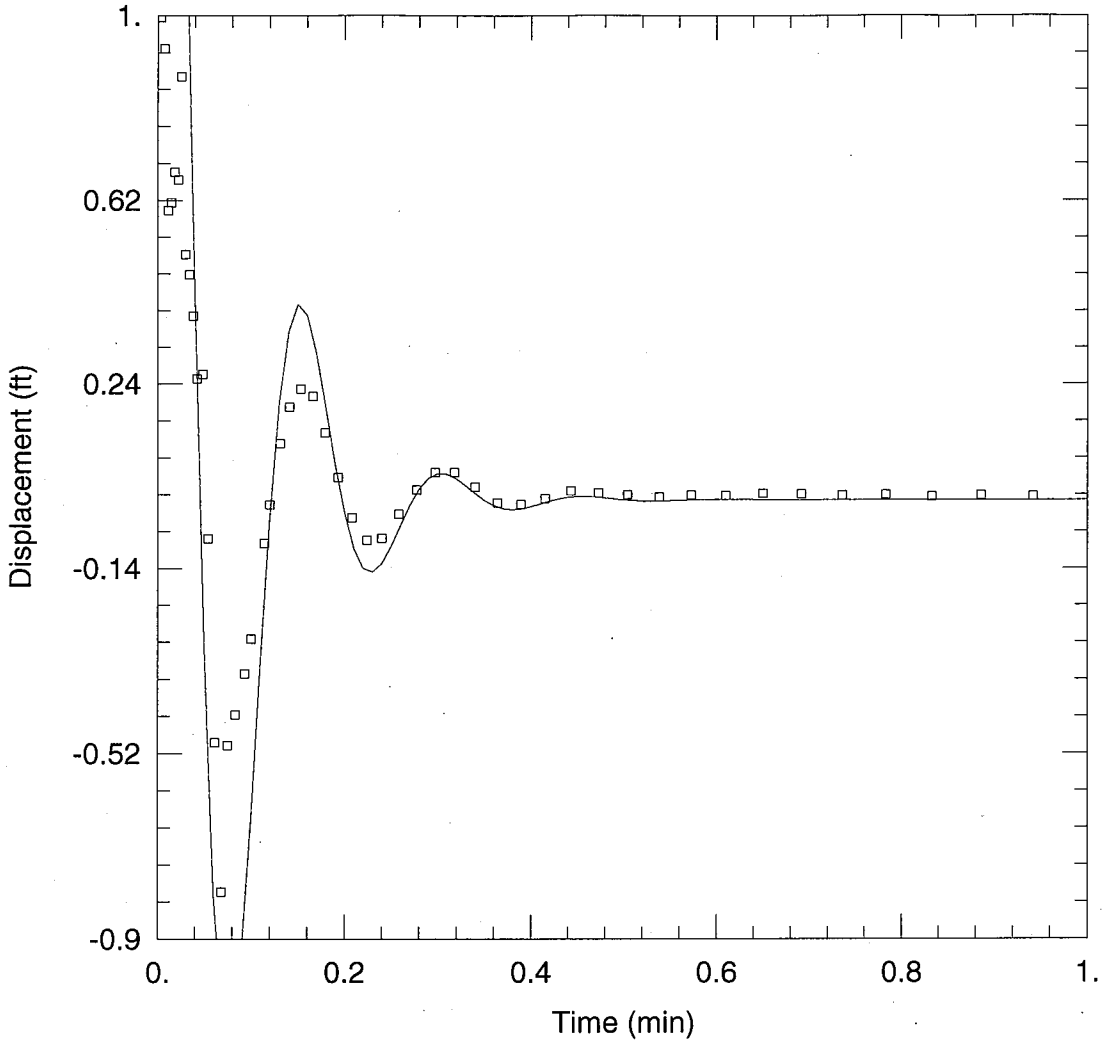
Saturated Thickness: 72.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 64. ft
Casing Radius: 0.0833 ft
Static Water Column Height: 64. ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 155.3 ft/day
C(D) = 0.2399



SA-MW-131D - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131D_Fall2.aqt
Date: 01/05/10 Time: 17:18:45

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131D
Test Date: 9/15/2009

AQUIFER DATA

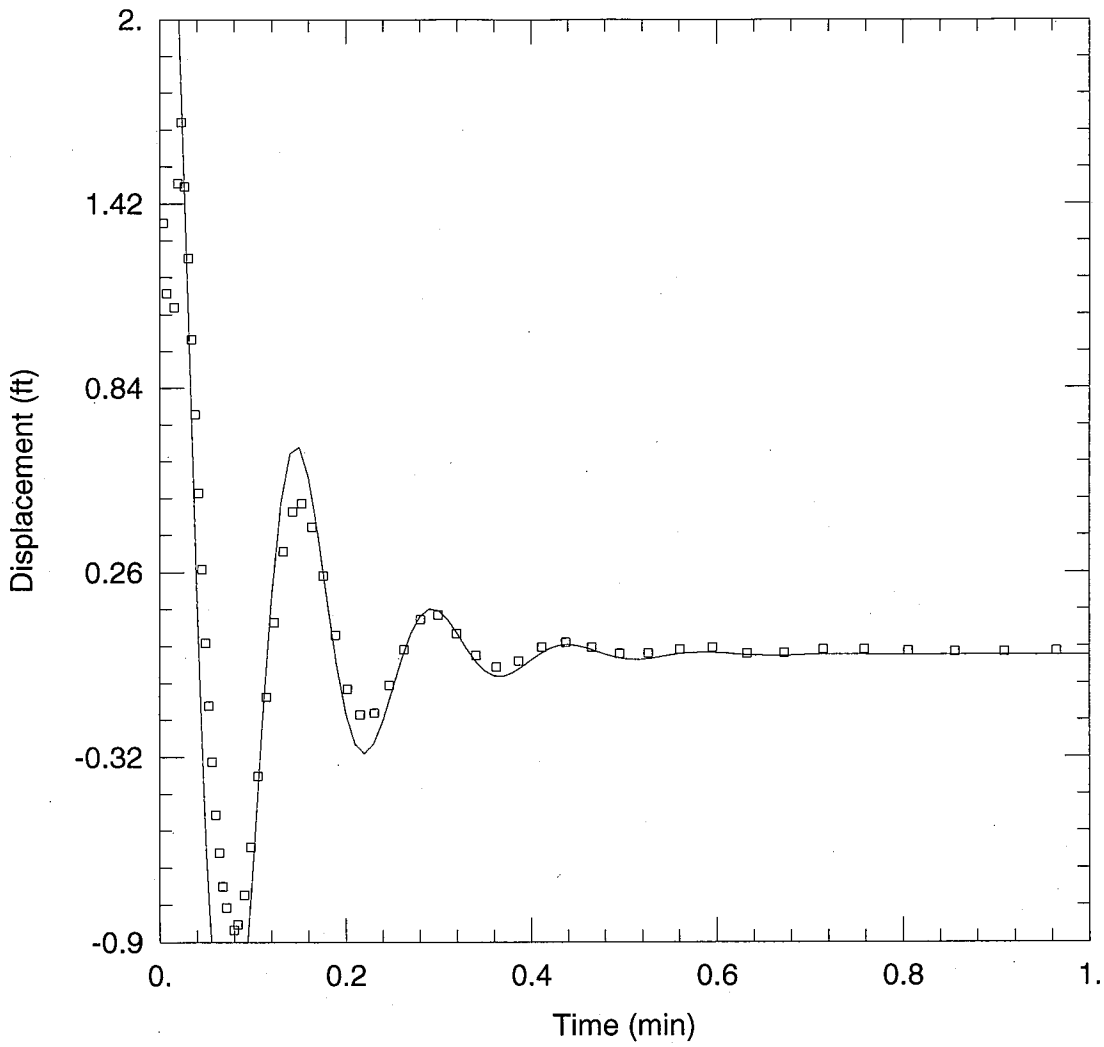
Saturated Thickness: 72.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 64. ft
Casing Radius: 0.0833 ft
Static Water Column Height: 64. ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 110.7 ft/day
C(D) = 0.3034



SA-MW-131D - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-131D_Rise2.aqt
Date: 01/05/10 Time: 17:18:55

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-131D
Test Date: 9/15/2009

AQUIFER DATA

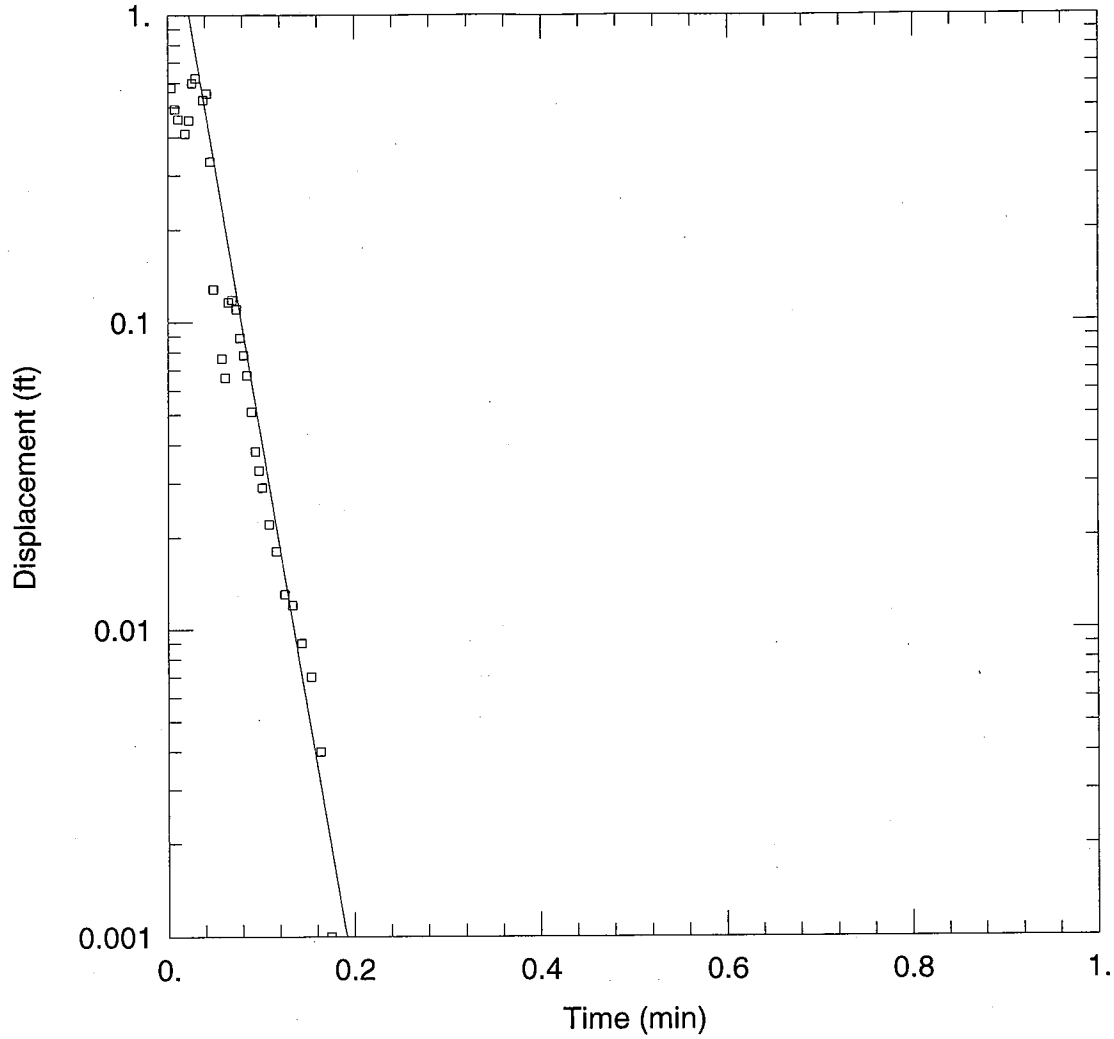
Saturated Thickness: 72.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-131D)

Initial Displacement: 3. ft
Total Well Penetration Depth: 64. ft
Casing Radius: 0.0833 ft
Static Water Column Height: 64. ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 147.1 ft/day
C(D) = 0.2343



SA-MW-132S - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132S_Fall1.aqt
Date: 01/05/10 Time: 17:19:59

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132S
Test Date: 9/15/09

AQUIFER DATA

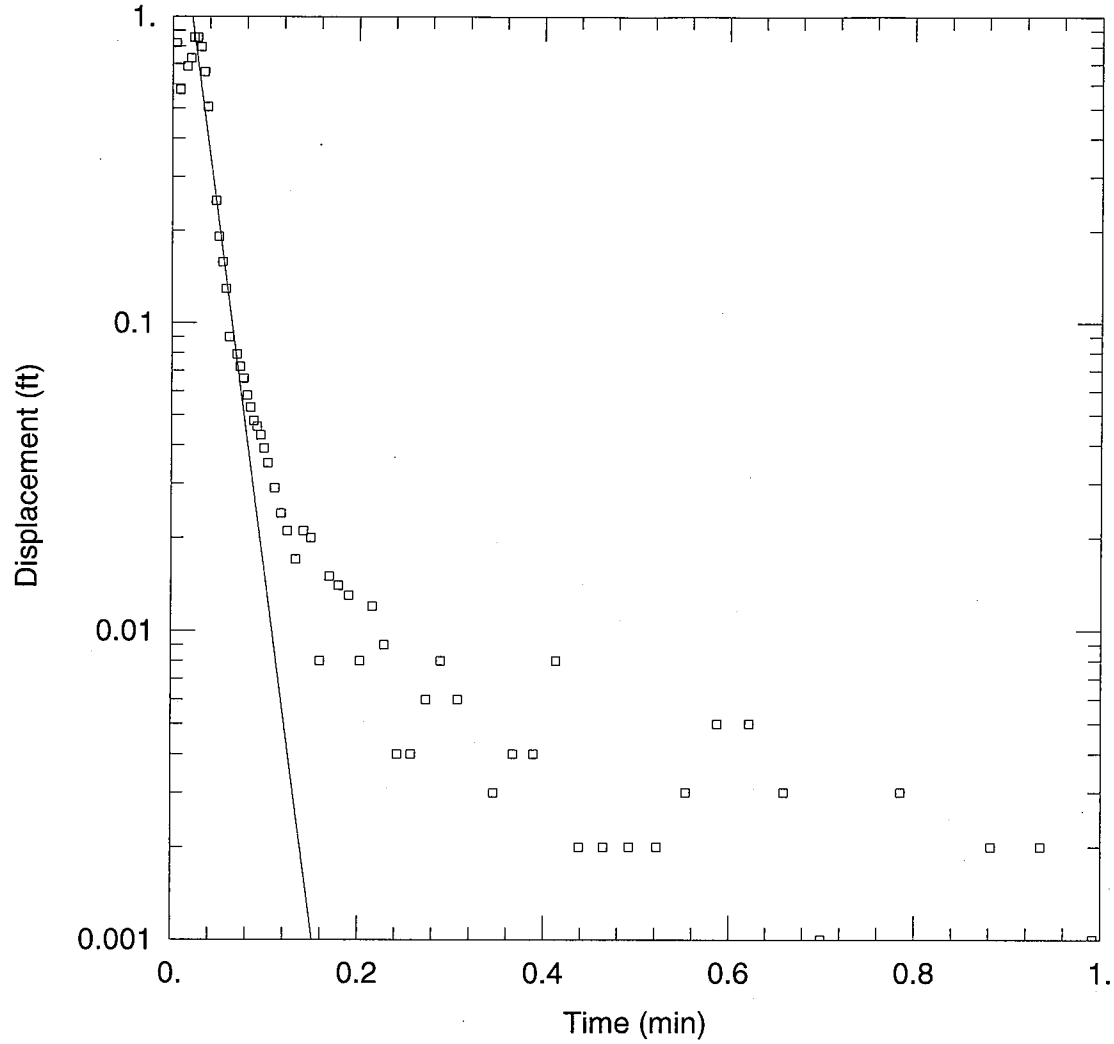
Saturated Thickness: 73.85 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 10.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 10.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 240.8 ft/day
y0 = 2.541 ft



SA-MW-132S - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132S_Rise1.aqt
Date: 01/05/10 Time: 17:20:09

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132S
Test Date: 9/15/09

AQUIFER DATA

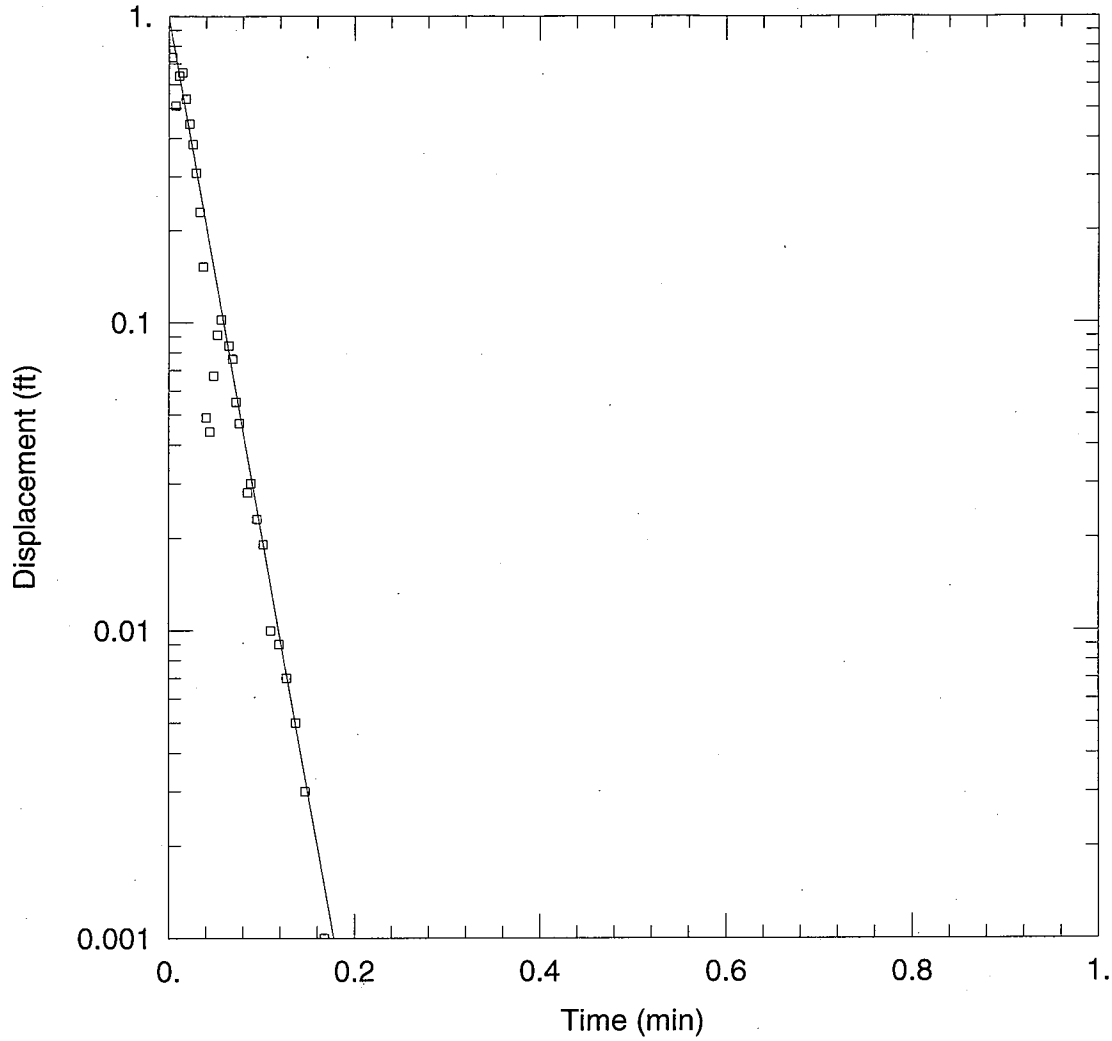
Saturated Thickness: 73.85 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 10.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 10.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 310.3 ft/day
y0 = 3.022 ft



SA-MW-132S - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132S_Fall2.aqt
Date: 01/05/10 Time: 17:20:18

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132S
Test Date: 9/15/09

AQUIFER DATA

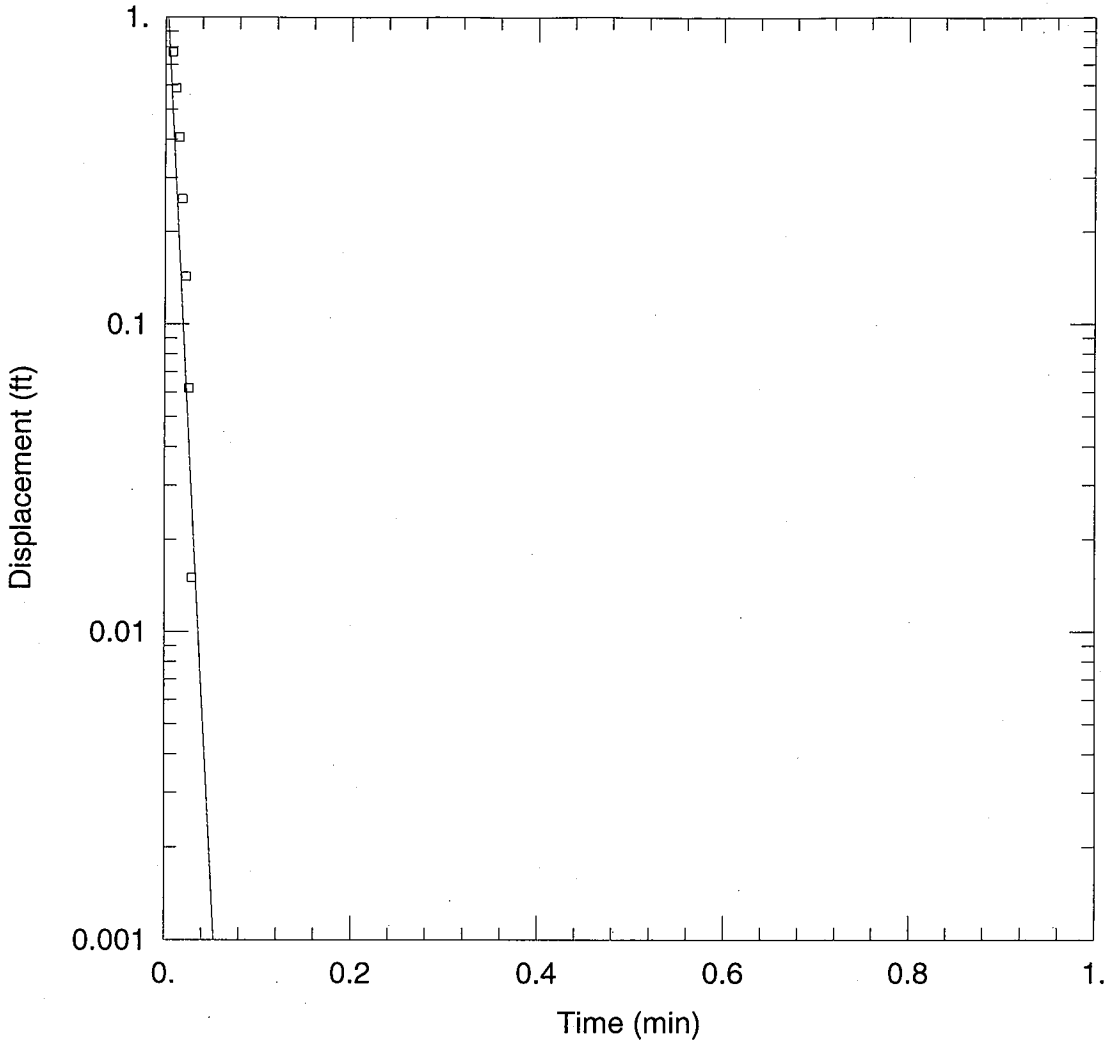
Saturated Thickness: 73.85 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 10.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 10.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 227.8 ft/day
y0 = 0.9801 ft



SA-MW-132S - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132S_Rise2.aqt
Date: 01/05/10 Time: 17:20:46

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132S
Test Date: 9/15/09

AQUIFER DATA

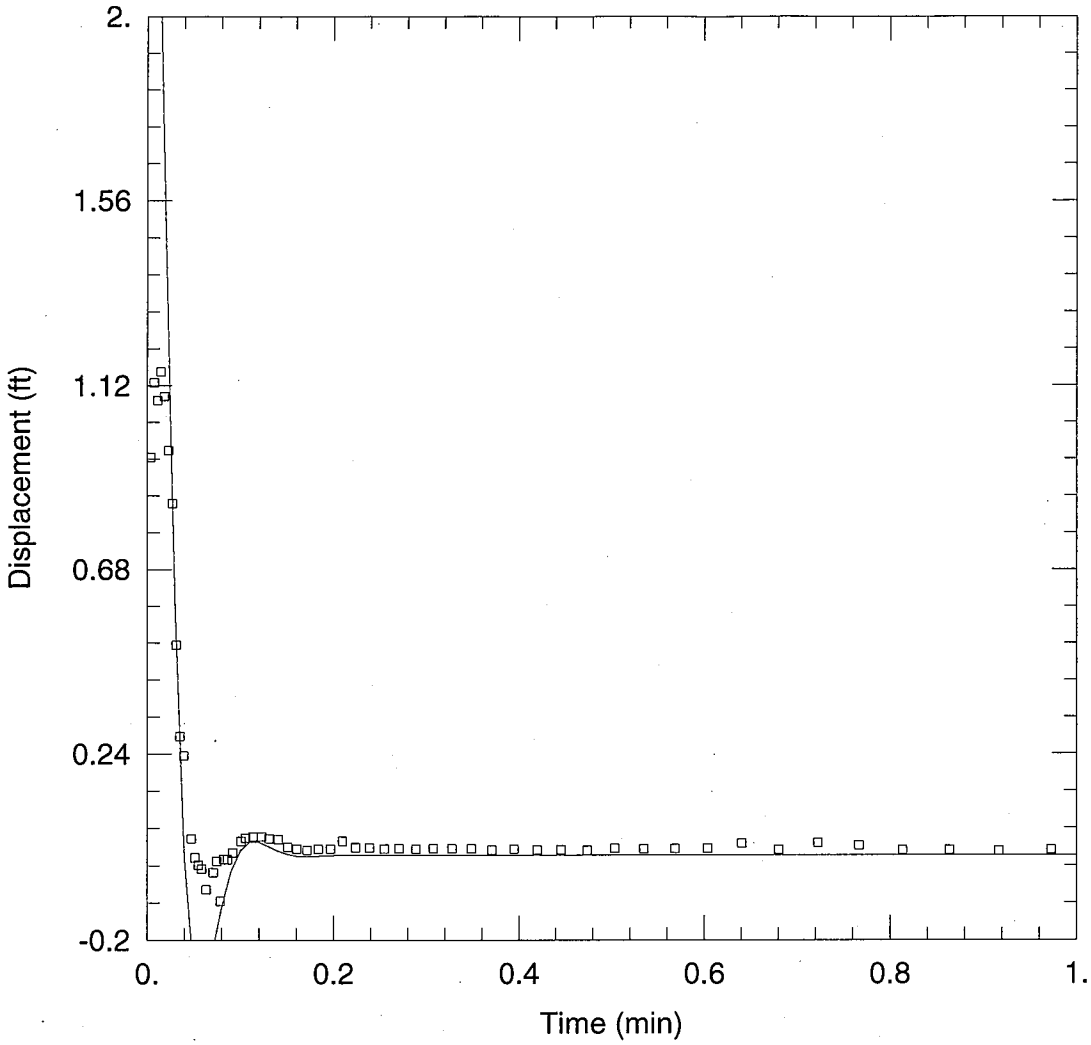
Saturated Thickness: 73.85 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132S)

Initial Displacement: 3. ft
Total Well Penetration Depth: 10.75 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 10.75 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 802.3 ft/day
y0 = 1.474 ft



SA-MW-132I - FALLING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132I_Fall1.aqt
Date: 01/05/10 Time: 17:20:54

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132I
Test Date: 9/15/2009

AQUIFER DATA

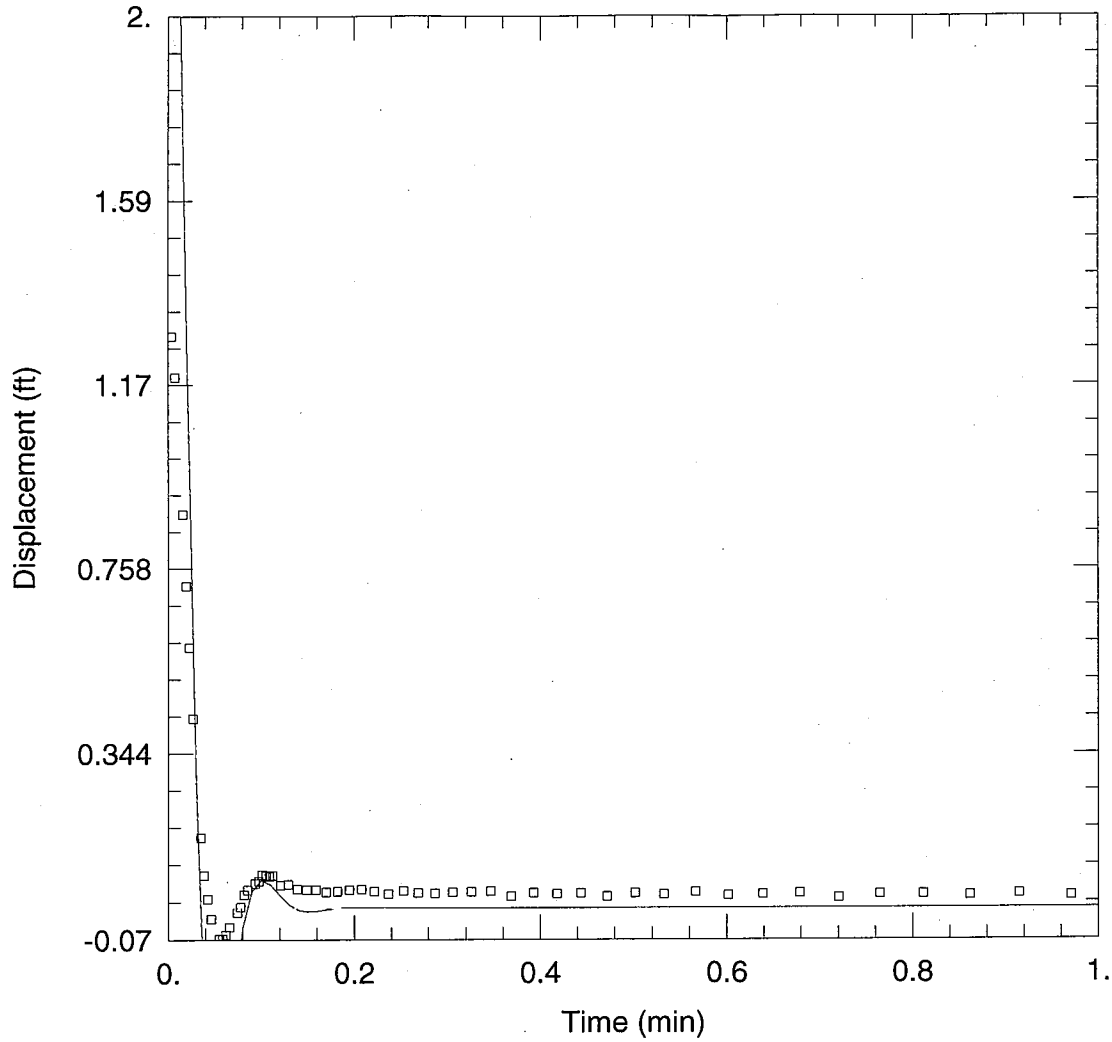
Saturated Thickness: 73.82 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 33.92 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 33.92 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 76.53 ft/day
C(D) = 0.585



SA-MW-132I - RISING HEAD #1

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132I_Rise1.aqt
Date: 01/05/10 Time: 17:21:01

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132I
Test Date: 9/15/2009

AQUIFER DATA

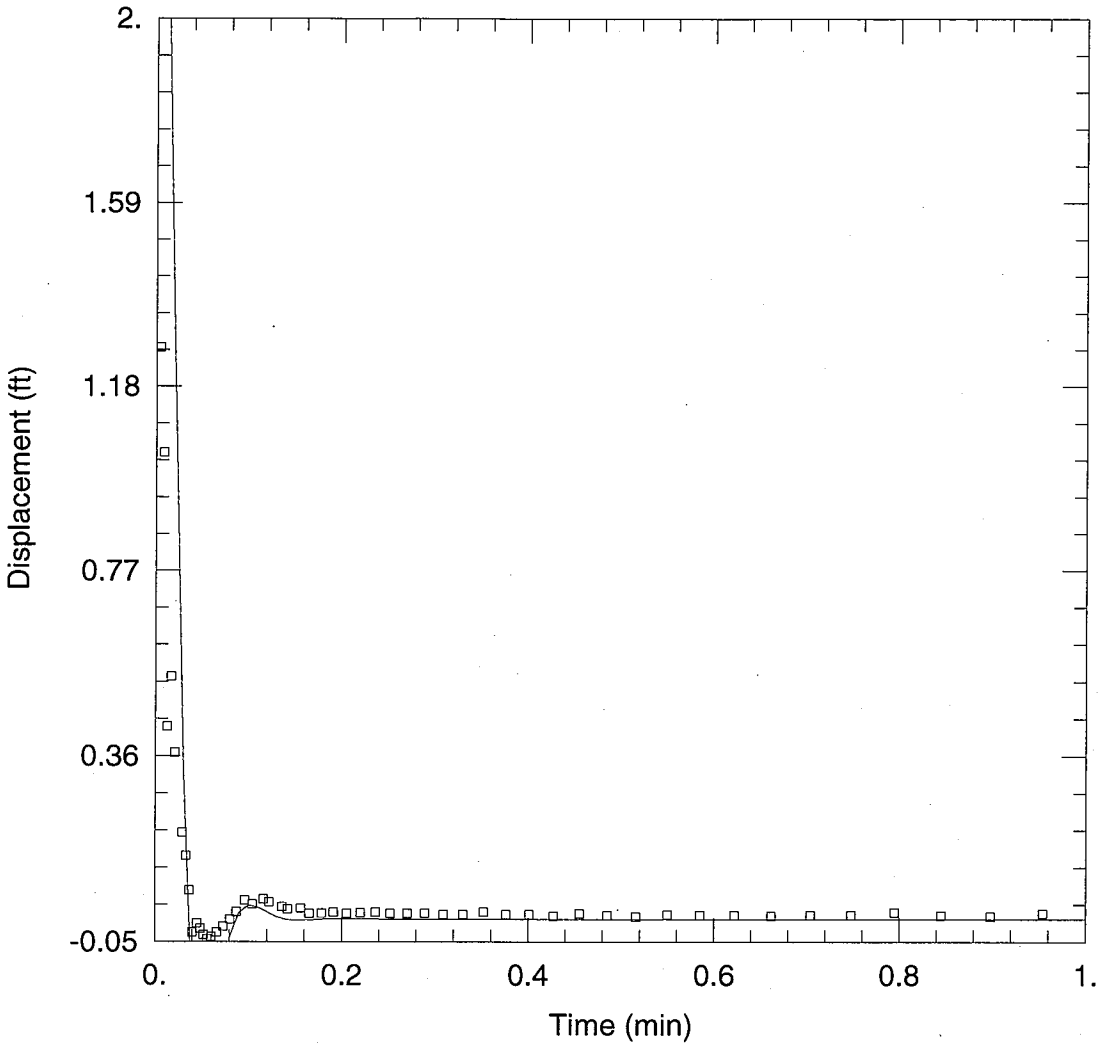
Saturated Thickness: 73.82 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 33.92 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 33.92 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 91.96 ft/day
C(D) = 0.5265



SA-MW-132I - FALLING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132I_Fall2.aqt
Date: 01/05/10 Time: 17:21:15

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132I
Test Date: 9/15/2009

AQUIFER DATA

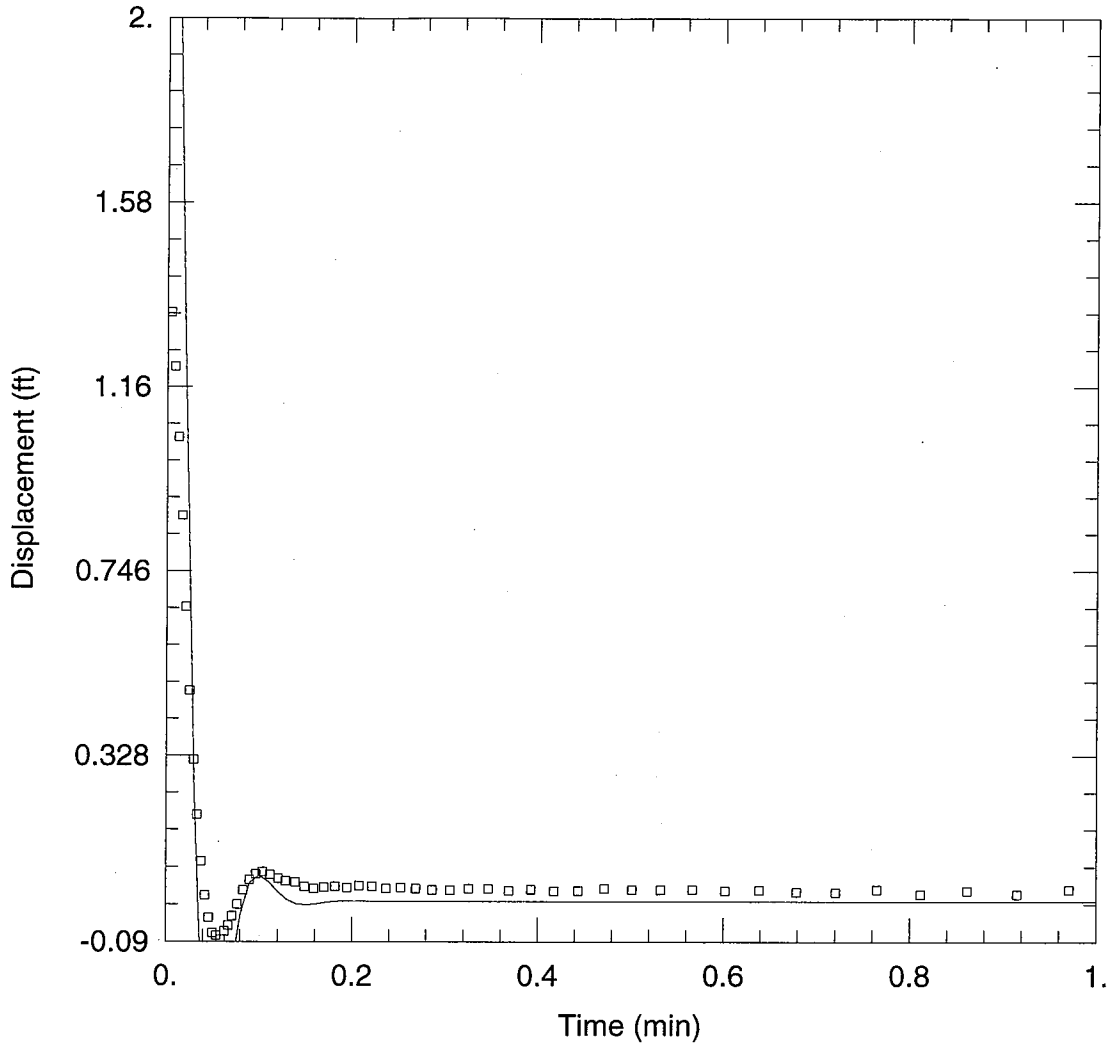
Saturated Thickness: 73.82 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 33.92 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 33.92 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 85.42 ft/day
C(D) = 0.5898



SA-MW-132I - RISING HEAD #2

Data Set: C:\NUS_Projects\Calverton - Slug Tests\AQTESolve Files\SA-MW-132I_Rise2.aqt
Date: 01/05/10 Time: 17:21:20

PROJECT INFORMATION

Company: Tetra Tech NUS, Inc.
Client: Calverton
Project: 112G01655
Test Well: SA-MW-132I
Test Date: 9/15/2009

AQUIFER DATA

Saturated Thickness: 73.82 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SA-MW-132I)

Initial Displacement: 3. ft
Total Well Penetration Depth: 33.92 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 33.92 ft
Screen Length: 10. ft
Wellbore Radius: 0.3333 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Springer-Gelhar
K = 92.86 ft/day
C(D) = 0.5324

APPENDIX C

GROUNDWATER SAMPLE LOG SHEETS AND LOW FLOW PURGE DATA SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: ET-MW-01S-20090908
Sample Location: Engine Test Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-8-09								
Time: 1445								
Method: Peristaltic pump	clear	5.51	0.051	17.23	0.0	4.99	145	—

PURGE DATA:

Date: 9-8-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 10.42'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1345								
End Purge (hrs): 1445								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (See above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ]

- Pump/Tubing set in well at ~16' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ]

- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: ET-MW01S
DATE: 9-8-09

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	SAL %	Comments
1340	10.42	–	–	–	–	–	–	–	–	Initial
1345	10.42	395	5.34	0.060	3.7	7.72	17.22	33	–	clear- start of purge
1350	10.42	390	5.80	0.059	0.6	5.54	16.98	78	–	clear
1355	10.42	385	5.63	0.060	0.0	4.70	16.97	99	–	clear
1400	10.42	385	5.61	0.060	0.0	4.36	17.01	110	–	clear
1405	10.42	385	5.58	0.057	0.0	4.49	17.12	120	–	clear
1410	10.42	385	5.55	0.056	0.0	4.71	17.19	128	–	clear
1415	10.42	385	5.54	0.055	0.0	4.80	17.16	134	–	clear
1420	10.42	385	5.53	0.053	0.0	4.87	17.20	138	–	clear
1425	10.42	385	5.53	0.052	0.0	4.93	17.22	141	–	clear
1430	10.42	385	5.52	0.051	0.0	4.96	17.23	143	–	clear
1435	10.42	385	5.52	0.052	0.0	4.99	17.22	144	–	clear
1440	10.42	385	5.52	0.051	0.0	5.01	17.24	145	–	clear
1445	10.42	385	5.51	0.051	0.0	4.99	17.23	145	–	clear- collect sample

SIGNATURE(S): [illegible]

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: ET-MW-02F-20090908
Sample Location: Engine Test Area
Sampled By: KAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-8-09								
Time: 1325								
Method: Peristaltic pump	clear	5.41	0.093	18.42	0.0	3.26	24	—

PURGE DATA:

Date: 9-8-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 9.95'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1225								
End Purge (hrs): 1325								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ] - pump Tubing set in well at ~16' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ] - No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): KAS

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW02D
DATE: 9-8-09

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	SAL %	Comments
1220	9.95	—	—	—	—	—	—	—	—	Initial
1225	9.95	400	5.69	0.080	2.1	2.42	18.01	58	—	clear-start of purge
1230	9.95	395	5.20	0.087	0.0	2.54	17.93	50	—	clear
1235	9.95	390	5.22	0.094	0.0	2.47	18.10	18	—	clear
1230	9.95	390	5.33	0.099	0.0	2.42	18.25	6	—	clear
1235	9.95	390	5.40	0.097	0.0	2.70	18.31	9	—	clear
1240	9.95	390	5.42	0.093	0.0	3.06	18.33	12	—	clear
1245	9.95	390	5.42	0.094	0.0	3.09	18.36	15	—	clear
1250	9.95	390	5.41	0.094	0.0	3.12	18.38	18	—	clear
1255	9.95	390	5.41	0.093	0.0	3.15	18.36	20	—	clear
1300	9.95	390	5.41	0.093	0.0	3.18	18.35	22	—	clear
1305	9.95	390	5.41	0.092	0.0	3.21	18.36	24	—	clear
1310	9.95	390	5.41	0.093	0.0	3.23	18.38	25	—	clear
1315	9.95	390	5.41	0.093	0.0	3.25	18.40	24	—	clear
1320	9.95	390	5.41	0.093	0.0	3.27	18.41	24	—	clear
1325	9.95	390	5.41	0.093	0.0	3.26	18.42	24	—	clear

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: ET-MW-03$-20090908
Sample Location: Engine Test Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-8-09								
Time: 1200								
Method: Peristaltic pump	clear	4.53	0.032	15.89	0.0	2.34	171	–

PURGE DATA:

Date: 9-8-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 10.78								
One Casing Volume(gal/L):								
Start Purge (hrs): 1100								
End Purge (hrs): 1200								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.75								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	–

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ] - Pump Tubing set in well at ~16' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ] - No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
–	–	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: ET-MW03
DATE: 9-8-09

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	SAL %	Comments
1058	10.78	–	–	–	–	–	–	–	–	Initial
1100	10.78	400	4.99	0.031	0.8	1.87	15.61	110	–	clear - start of purge
1105	10.78	390	4.69	0.031	0.3	2.11	15.69	134	–	clear
1110	10.78	390	4.60	0.032	0.0	2.27	15.75	146	–	clear
1115	10.78	390	4.53	0.032	0.0	2.23	15.80	156	–	clear
1120	10.78	390	4.50	0.033	0.0	2.24	15.83	161	–	clear
1125	10.78	390	4.49	0.032	0.0	2.28	15.84	165	–	clear
1130	10.78	390	4.50	0.032	0.0	2.31	15.84	167	–	clear
1135	10.78	390	4.52	0.032	0.0	2.36	15.87	169	–	clear
1140	10.78	390	4.51	0.032	0.0	2.38	15.89	170	–	clear
1145	10.78	390	4.53	0.032	0.0	2.36	15.88	168	–	clear
1150	10.78	390	4.53	0.032	0.0	2.34	15.87	169	–	clear
1155	10.78	390	4.53	0.032	0.0	2.35	15.88	170	–	clear
1200	10.78	390	4.53	0.032	0.0	2.34	15.89	171	–	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW-01F-20090910
Sample Location: Fuel Calibration Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-10-09								
Time: 0845								
Method: Redi-Flow pump	Clear	5.04	0.105	17.13	0.0	0.65	-25	—

PURGE DATA:

Date: 9-10-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 20'								
Static Water Level (WL): 8.89'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0745								
End Purge (hrs): 0845								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ]

- Pump set in well at ~ 19' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ]

- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW 01S
DATE: 9-10-09

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	SAL %	Comments
0740	8.89	—	—	—	—	—	—	—	—	Initial
0745	8.89	400	3.86	0.151	13.5	2.33	16.88	104	—	clear - start of purge
0750	8.89	390	4.88	0.121	13.0	1.22	16.96	4	—	clear
0755	8.89	390	5.06	0.113	10.4	0.86	16.93	-11	—	clear
0800	8.89	390	5.07	0.112	7.7	0.77	16.99	-17	—	clear
0805	8.89	390	5.03	0.109	5.3	0.76	17.02	-18	—	clear
0810	8.89	390	5.05	0.108	3.6	0.73	17.05	-19	—	clear
0815	8.89	390	5.05	0.107	2.1	0.70	17.07	-21	—	clear
0820	8.89	390	5.04	0.106	1.4	0.70	17.09	-22	—	clear
0825	8.89	390	5.05	0.105	0.0	0.67	17.10	-23	—	clear
0830	8.89	390	5.05	0.105	0.0	0.66	17.11	-24	—	clear
0835	8.89	390	5.04	0.105	0.0	0.65	17.11	-25	—	clear
0840	8.89	390	5.04	0.105	0.0	0.66	17.12	-26	—	clear
0845	8.89	390	5.04	0.105	0.0	0.65	17.13	-25	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW-01I-20090910
Sample Location: Fuel Calibration Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-10-09								
Time: 1005								
Method: Redi-Flow pump	clear	4.67	0.066	14.86	0.0	4.46	228	—

PURGE DATA:

Date: 9-10-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 40'								
Static Water Level (WL): 8.73'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0905								
End Purge (hrs): 1005								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump set in well at ~ 39' (TOC)
- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW01I
DATE: 9-10-09

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	SAL %	Comments
0900	8.73'	—	—	—	—	—	—	—	—	Initial
0905	8.73'	415	6.50	0.075	12.4	7.28	15.71	26	—	clear-start of purge
0910	8.73	385	5.44	0.068	8.7	5.77	15.02	103	—	clear
0915	8.73'	385	4.89	0.064	4.1	5.32	14.83	166	—	clear
0920	8.73	385	4.80	0.064	1.9	5.30	14.74	186	—	clear
0925	8.73	385	4.77	0.064	0.2	5.02	14.76	200	—	clear
0930	8.73	385	4.75	0.064	0.0	4.72	14.76	208	—	clear
0935	8.73	385	4.71	0.064	0.0	4.69	14.72	215	—	clear
0940	8.73	385	4.71	0.065	0.0	4.62	14.77	219	—	clear
0945	8.73	385	4.70	0.066	0.0	4.58	14.80	222	—	clear
0950	8.73	385	4.69	0.066	0.0	4.54	14.82	224	—	clear
0955	8.73	385	4.68	0.066	0.0	4.50	14.84	226	—	clear
1000	8.73	385	4.67	0.066	0.0	4.48	14.85	227	—	clear
1000	8.73	385	4.67	0.066	0.0	4.46	14.86	228	—	clear-collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW-04S-20090910
Sample Location: Fuel calibration Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-10-09								
Time: 1455								
Method: Redi-Flow pump	clear	4.94	0.044	19.89	0.0	3.40	137	—

PURGE DATA:

Date: 9-10-09
Method: Low Flow
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material Type: 4 inch PVC
Total Well Depth (TD): 13'
Static Water Level (WL): 7.28
One Casing Volume(gal/L):
Start Purge (hrs): 1355
End Purge (hrs): 1455
Total Purge Time (min): 60
Total Vol. Purged (gal/L): 6.15

SEE LOW FLOW PURGE DATA SHEET, Page 2

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ] - pump set in well at ~ 12.5' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ] - No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW04S
DATE: 9-10-09

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	SAL %	Comments
1352	7.28	—	—	—	—	—	—	—	—	Initial
1355	7.28	415	5.60	0.049	13.4	4.59	19.38	144	—	clear - start of purge
1400	7.28	385	5.09	0.047	11.3	3.73	19.33	147	—	clear
1405	7.28	385	5.09	0.047	7.2	3.65	19.51	142	—	clear
1410	7.28	385	5.07	0.047	3.1	3.74	19.63	139	—	clear
1415	7.28	385	5.05	0.046	2.5	3.67	19.71	138	—	clear
1420	7.28	385	5.03	0.046	0.9	3.64	19.78	139	—	clear
1425	7.28	385	5.00	0.045	0.0	3.57	19.84	139	—	clear
1430	7.28	385	4.98	0.045	0.0	3.51	19.88	138	—	clear
1435	7.28	385	4.96	0.044	0.0	3.54	19.92	139	—	clear
1440	7.28	385	4.94	0.044	0.0	3.49	19.91	140	—	clear
1445	7.28	385	4.93	0.044	0.0	3.44	19.95	139	—	clear
1450	7.28	385	4.94	0.044	0.0	3.42	19.92	138	—	clear
1455	7.28	385	4.94	0.044	0.0	3.40	19.89	137	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW-04I-20090910
Sample Location: Fuel Calibration Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-10-09								
Time: 1330								
Method: Redi-Flow pump	Clear	4.78	0.067	17.00	0.0	3.32	221	—

PURGE DATA:

Date: 9-10-09								
Method: low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 50'								
Static Water Level (WL): 7.16								
One Casing Volume(gal/L):								
Start Purge (hrs): 1230								
End Purge (hrs): 1330								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.25								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3X2
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ]

- pump set in well at ~ 49' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ]

- No stains or odors observed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	FC-DUP05-20090910	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW04I
DATE: 9-10-09

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	SAL %	Comments
1228	7.16	–	–	–	–	–	–	–	–	Initial
1230	7.16	415	5.44	0.068	11.2	6.41	18.63	79	–	clear - start of purge
1235	7.16	390	4.90	0.063	4.6	4.81	17.48	170	–	clear
1240	7.16	390	4.86	0.062	1.4	4.35	17.37	196	–	clear
1245	7.16	390	4.80	0.063	0.2	4.16	17.32	210	–	clear
1250	7.16	390	4.77	0.064	0.0	3.98	17.34	214	–	clear
1255	7.16	390	4.79	0.065	0.0	3.53	17.26	218	–	clear
1300	7.16	390	4.77	0.065	0.0	3.43	17.18	219	–	clear
1305	7.16	390	4.76	0.066	0.0	3.52	17.11	221	–	clear
1310	7.16	390	4.77	0.066	0.0	3.48	17.07	221	–	clear
1315	7.16	390	4.77	0.067	0.0	3.42	17.04	222	–	clear
1320	7.16	390	4.77	0.067	0.0	3.39	17.00	221	–	clear
1325	7.16	390	4.78	0.067	0.0	3.34	16.99	222	–	clear
1330	7.16	390	4.78	0.067	0.0	3.32	17.00	221	–	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW05S-20090909
Sample Location: Fuel C-1
Sampled By: SBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/9/09								
Time: 1223								
Method: Low Flow	clear	4.87	0.055	18.95	4.31	1.73	25	—

PURGE DATA:

Date: 9/9/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4"	
Total Well Depth (TD): 16	
Static Water Level (WL): 10.33	
One Casing Volume(gal/L):	
Start Purge (hrs): 1119	
End Purge (hrs): 1223	
Total Purge Time (min): 64	
Total Vol. Purged (gal/L): 3.5	

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	yes

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.: TM0900 FC-DUP04-20090909	Signature(s):
—		

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW05S
DATE: 9/09/09

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	SAL %	Comments
1115	10.33									
1119	10.36	400	4.36	0.070	50.01	2.18	18.27	275	—	
1124	10.36	375	4.44	0.069	37.4	1.67	18.39	274	—	
1129	10.36	375	4.52	0.067	29.7	1.76	18.41	274	—	
1134	10.36	375	4.54	0.066	22.2	1.80	18.45	274	—	
1140	10.37	375	4.59	0.063	14.8	1.95	18.55	272	—	
1145	10.37	375	4.61	0.061	10.78	2.05	18.55	271	—	4 gal
1150	10.37	375	4.64	0.059	8.38	2.11	18.62	271	—	
1155	10.37	375	4.68	0.057	6.87	2.01	18.59	266	—	
1200	10.37	375	4.77	0.056	5.16	1.87	18.64	260	—	
1205	10.37	375	4.81	0.056	4.81	1.82	18.68	257	—	
1210	10.37	375	4.86	0.055	4.43	1.76	18.77	254	—	
1215	10.37	375	4.86	0.055	4.48	1.75	18.85	252	—	
1220	10.37	375	4.87	0.055	4.31	1.73	18.95	251	—	8.5 gal
1223	Collect	Sample	w/ Duplicate							
			FC-DUP04-20090909							

SIGNATURE(S): [signature]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW05I-20090909
Sample Location: Fuel Cal
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/9/09								
Time: 1049								
Method: Low Flow	clear	5.21	0.114	15.76	1.61	0.34	213	—

PURGE DATA:

Date: 9/9/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 4"								
Total Well Depth (TD): 58								
Static Water Level (WL): 9.76								
One Casing Volume(gal/L):								
Start Purge (hrs): 0942								
End Purge (hrs): 1049								
Total Purge Time (min): 67								
Total Vol. Purged (gal/L): 7 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	yes

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~
4"

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): Jed Bickett

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW5I
DATE: 9/9/09

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	SAL %	Comments
0938	9.76									
0942	9.76	350	5.53	0.130	12.5	2.61	15.68	129	—	
0947	9.76	350	5.43	0.128	12.7	1.21	15.77	146	—	
0952	9.76	350	5.36	0.125	9.8	0.85	15.81	162	—	
0958	9.76	350	5.29	0.122	10.11	0.68	15.77	175	—	
1003	9.76	350	5.28	0.121	7.41	0.60	15.75	182	—	
1008	9.76	350	5.25	0.119	5.63	0.53	15.79	190	—	
1013	9.76	350	5.23	0.117	4.92	0.48	15.72	194	—	
1018	9.76	350	5.23	0.117	4.74	0.48	15.70	201	—	4 gal
1024	9.76	350	5.20	0.115	3.43	0.40	15.73	205	—	
1029	9.76	350	5.21	0.115	3.82	0.39	15.71	206	—	
1034	9.76	350	5.20	0.115	3.44	0.37	15.72	209	—	
1039	9.76	350	5.19	0.114	1.87	0.34	15.76	212	—	
1044	9.76	350	5.21	0.114	1.61	0.34	15.76	213	—	7 gal
1049	Collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW06S-20090909
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/9/09								
Time: 1520								
Method: Low Flow	clear	6.39	0.206	19.67	0.95	2.21	133	—

PURGE DATA:

Date: 9/9/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD):	
Static Water Level (WL): 12.37	
One Casing Volume(gal/L):	
Start Purge (hrs): 1427	
End Purge (hrs): 1520	
Total Purge Time (min): 53	
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~~	no

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW06S
DATE: 9/9/09

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	SAL %	Comments
1423	12.37									
1427	12.41	380	6.23	0.212	-0.08	3.86	19.87	141	—	
1432	12.42	380	6.33	0.217	8.91	1.76	19.23	136	—	
1437	12.43	380	6.38	0.216	4.98	1.78	19.24	129	—	
1441	12.43	380	6.38	0.215	2.57	1.88	19.30	128	—	
1447	12.43	380	6.39	0.208	5.30	2.18	19.44	127	—	
1452	12.43	380	6.41	0.206	3.49	2.18	19.55	127	—	
1456	12.43	380	6.38	0.205	2.52	2.19	19.53	128	—	
1501	12.43	380	6.37	0.204	2.03	2.13	19.62	131	—	
1506	12.43	380	6.36	0.203	1.90	2.08	19.68	132	—	
1511	12.43	380	6.37	0.202	3.52	2.06	19.72	133	—	4.5
1516	12.43	380	6.39	0.206	0.95	2.21	19.67	133	—	5gal total
1520	collect sample									

SIGNATURE(S): Jack Bickell

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW07S-20090909
Sample Location: Fuel Calibration
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/8/09								
Time: 0850								
Method: Low Flow	clear	5.58	0.080	28.81	0.78	0.37	-20	—

PURGE DATA:

Date: 9/8/09
Method: Low Flow
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 4"
Total Well Depth (TD): 15
Static Water Level (WL): 10.34
One Casing Volume(gal/L):
Start Purge (hrs): 0748
End Purge (hrs): 0850
Total Purge Time (min): 62
Total Vol. Purged (gal/L): 8 gal

SEE LOW FLOW PURGE DATA SHEET, Page 2

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~~	no

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):
yes		

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW07S
DATE: 9/9/09

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	SAL %	Comments
0744	10.34									
0748	10.34	400								
0754	10.34	350	5.66	0.091	53.6	3.19	20.69	13	—	generator shut off, reset
0759	10.35	400	5.62	0.089	21.5	0.61	20.57	7	—	
0804	10.35	400	5.61	0.084	4.03	0.47	20.15	0	—	
0809	10.35	400	5.60	0.081	5.31	0.42	20.37	-3	—	
0815	10.35	400	5.59	0.082	4.28	0.39	20.63	-8	—	
0820	10.35	400	5.58	0.081	3.24	0.39	20.68	-11	—	5 gal purged
0825	10.35	400	5.58	0.082	3.15	0.39	20.70	-14	—	
0830	10.35	400	5.57	0.081	3.74	0.38	20.73	-14	—	
0835	10.35	400	5.57	0.080	2.94	0.38	20.76	-17	—	
0840	10.35	400	5.59	0.080	1.08	0.38	20.77	-18	—	
0845	10.35	400	5.58	0.080	0.78	0.37	20.81	-20	—	
0850	Collect Sample with MS/MSD									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW07I-20090915
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/15/09								
Time: 1228								
Method: Low Flow	clear	6.15	0.146	21.02	7.82	2.03	128	–

PURGE DATA:

Date: 9/15/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 60.13	
Static Water Level (WL): 10.35	
One Casing Volume(gal/L): 6	
Start Purge (hrs): 1130	
End Purge (hrs): 1228	
Total Purge Time (min): 58	
Total Vol. Purged (gal/L): 5.5 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	NO

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):
–	–	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW07I
DATE: 9/15/09

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	SAL %	Comments
1110	10.35									
1130	10.37	400	10.03	0.230	233	4.76	23.29	-27	—	light brown
1135	10.37	400	9.81	0.221	215	3.31	21.70	-35	—	
1140	10.37	400	9.14	0.185	221	2.98	21.00	-26	—	
1145	10.37	400	8.22	0.171	124	2.84	20.83	+11	—	
1150	10.37	400	7.41	0.163	81.4	2.73	20.40	53	—	
1155	10.37	400	6.97	0.158	27.8	2.59	20.27	84	—	
1200	10.37	400	6.69	0.155	23.2	2.46	20.32	97	—	
1205	10.37	400	6.37	0.152	18.9	2.30	20.34	115	—	
1210	10.37	400	6.27	0.151	13.1	2.23	20.31	119	—	
1215	10.37	350	6.22	0.150	10.43	2.11	20.75	123	—	4.5 gal
1220	10.37	350	6.22	0.150	10.43	2.05	20.94	124	—	
1225	10.37	350	6.15	0.146	7.32	2.03	21.02	128	—	5.5 gal
1228	Collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FC-MW-08f-20090910
Sample Location: Fuel calibration Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-10-09								
Time: 11.30								
Method: Peristaltic pump								

PURGE DATA:

Date: 9-10-09								
Method: Low flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 4 inch PVC								
Total Well Depth (TD): 20'								
Static Water Level (WL): 6.06'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1030								
End Purge (hrs): 1130								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	-

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ] - pump tubing set in well at ~19' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ] - No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FC-MW08$
DATE: 9-10-09

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	SAL %	Comments
1028	6.06	–	–	–	–	–	–	–	–	
1030	6.06	400	5.09	0.151	3.8	1.32	18.07	140	–	Initial
1035	6.06	395	5.21	0.158	1.0	0.66	17.73	146	–	clear-start of purge
1040	6.06	390	5.23	0.163	0.3	0.44	17.68	150	–	clear
1045	6.06	390	5.27	0.165	0.1	0.51	17.64	154	–	clear
1050	6.06	390	5.29	0.164	0.0	0.51	17.63	155	–	clear
1055	6.06	390	5.31	0.165	0.0	0.53	17.61	154	–	clear
1100	6.06	390	5.32	0.164	0.0	0.49	17.65	152	–	clear
1105	6.06	390	5.33	0.164	0.0	0.48	17.61	150	–	clear
1110	6.06	390	5.33	0.163	0.0	0.43	17.58	148	–	clear
1115	6.06	390	5.32	0.163	0.0	0.42	17.56	144	–	clear
1120	6.06	390	5.33	0.162	0.0	0.41	17.57	141	–	clear
1125	6.06	390	5.33	0.162	0.0	0.43	17.59	140	–	clear
1130	6.06	390	5.34	0.162	0.0	0.44	17.60	139	–	clear-collect sample

SIGNATURE(S): [illegible]

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW015-20090901
Sample Location: Site 2
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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/1/09								
Time: 1510								
Method: Low Flow	clear	4.33	0.262	17.35	1.25	5.64	277	—

PURGE DATA:

Date: 9/1/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4"	
Total Well Depth (TD): 285	
Static Water Level (WL): 22.29	
One Casing Volume(gal/L):	
Start Purge (hrs): 1422	
End Purge (hrs): 1510	
Total Purge Time (min): 48	
Total Vol. Purged (gal/L) 5.5 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	no

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ JBB 9/1/09

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See above

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): Fred Bickett

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW01S
DATE: 9/1/09

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	SAL %	Comments
1420	22.29									
1422	22.29	400	4.32	0.259	3.04	14.54	21.00	245	—	
1427	22.29	400	4.34	0.267	-0.46	5.84	19.65	259	—	
1432	22.29	400	4.33	0.267	0.53	5.41	20.54	265	—	tubing temporarily pinched
1437	22.29	400	4.33	0.263	1.73	5.51	19.46	269	—	but still some flow
1442	22.29	400	4.33	0.257	1.03	5.49	19.13	271	—	
1447	22.30	400	4.34	0.257	1.03	5.58	18.65	273	—	
1452	22.29	400	4.33	0.265	1.24	5.63	18.00	274	—	
1457	22.29	400	4.30	0.263	0.24	5.51	17.58	277	—	4.5 gal purged
1502	22.29	400	4.33	0.261	0.98	5.77	17.50	276	—	
1507	22.29	400	4.33	0.262	1.25	5.64	17.35	277	—	5.5 gal total
1510	Collect sample									

SIGNATURE(S): [signature]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW01I-20090901
Sample Location: Site 2
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/1/09								
Time: 1350								
Method: Low Flow	clear	5.78	0.041	16.69	8.58	5.95	172	0

PURGE DATA:

Date: 9/1/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4"	
Total Well Depth (TD): 78'	
Static Water Level (WL): 21.98	
One Casing Volume(gal/L):	
Start Purge (hrs): 1258	
End Purge (hrs): 1350	
Total Purge Time (min): 52	
Total Vol. Purged (gal/L): 6 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~~	no

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ JBB 9/1/09

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
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW01I
DATE: 9/1/09

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	SAL %	Comments
1255	21.98									
1258	21.98	400	5.95	0.040	11.5	8.10	16.96	162	—	
1303	22.00	400	5.88	0.040	18.2	6.81	16.53	165	—	
1308	22.00	400	5.82	0.041	13.0	6.38	16.32	167	—	
1313	22.00	400	5.79	0.041	15.8	6.26	16.38	170	—	
1318	22.00	400	5.78	0.041	11.4	6.20	16.42	172	—	
1323	22.00	400	5.78	0.041	12.5	6.11	16.48	172	—	
1328	22.00	400	5.78	0.041	10.34	5.92	16.64	172	—	
1333	22.00	400	5.78	0.041	11.00	6.21	16.70	174	—	
1338	22.00	400	5.78	0.041	10.26	6.07	16.79	173	—	4.5 gal purged
1343	22.00	400	5.78	0.041	15.80	6.01	16.71	173	—	
1348	22.00	400	5.78	0.041	8.58	5.95	16.69	172	—	
1350	collect sample									

SIGNATURE(S): [signature]

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW-02S-20090901
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-1-09								
Time: 1500								
Method: Peristaltic pump	clear	6.43	0.777	14.63	1.6	0.23	-304	—

PURGE DATA:

Date: 9-1-09	
Method: low flow	
Monitor Reading (ppm): 69.5	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4 inch PVC	
Total Well Depth (TD): 20.5'	
Static Water Level (WL): 14.43'	
One Casing Volume(gal/L):	
Start Purge (hrs): 1400	
End Purge (hrs): 1500	
Total Purge Time (min): 60	
Total Vol. Purged (gal/L): 5.5	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3x2
MEE	HCL/4 DEG C	2- 40ml vials	2x2

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)
- pump tubing set in well at ~ 19.0' (TOC)
- fuel odor during purge and sampling

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. [ ]

Note → Free product in well at 14.32' to 14.43' (TOC)
PID readings in well up to 69.5 ppm
No free product observed in sample

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	FT-DUP01-20090901

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW02-F
DATE: 9-1-09

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	SAL %	Comments
1355	14.43	—	—	—	—	—	—	—	—	Initial
1400	14.43	350	4.80	0.814	10.5	1.90	15.07	-220	—	clear - start purge
1405	14.43	350	5.94	0.818	2.6	1.03	14.81	-285	—	clear - fuel odor
1410	14.43	350	6.27	0.825	2.2	0.83	14.68	-300	—	clear - fuel odor
1415	14.43	350	6.43	0.825	3.2	0.67	14.70	-304	—	" "
1420	14.43	350	6.50	0.821	3.7	0.52	14.61	-312	—	" "
1425	14.43	350	6.48	0.814	3.1	0.32	14.53	-309	—	" "
1430	14.43	350	6.45	0.798	2.3	0.24	14.58	-307	—	" "
1435	14.43	350	6.44	0.790	1.8	0.25	14.62	-305	—	" "
1440	14.43	350	6.45	0.784	1.7	0.23	14.65	-307	—	" "
1445	14.43	350	6.45	0.780	1.5	0.24	14.57	-306	—	" "
1450	14.43	350	6.44	0.779	1.6	0.22	14.59	-304	—	" "
1455	14.43	350	6.43	0.778	1.4	0.24	14.62	-305	—	" "
1500	14.43	350	6.43	0.777	1.6	0.23	14.63	-304	—	" "
										collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW-02I-20090901
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-1-09								
Time: 1630								
Method: Peristaltic pump	Clear	5.99	0.032	14.60	0.5	6.58	23	—

PURGE DATA:

Date: 9-1-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0		SEE LOW FLOW PURGE DATA SHEET, Page 2						
Well Casing Diameter & Material								
Type: 4 inch PVC								
Total Well Depth (TD): 80'								
Static Water Level (WL): 14.24								
One Casing Volume(gal/L):								
Start Purge (hrs): 1525								
End Purge (hrs): 1630								
Total Purge Time (min): 65								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3 x 3
MEE	HCL/4 DEG C	2- 40ml vials	2 x 3

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- pump tubing set in well at ~ 78' BGS
- No odors or stains observed

Circle if Applicable:

MS/MSD (Yes)

Duplicate ID No.: —

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW-02I
DATE: 9-1-09

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	SAL %	Comments
1520	14.24	–	–	–	–	–	–	–	–	Initial
1525	14.24	360	5.75	0.034	3.5	6.71	14.52	-154	–	clear - start purge
1530	14.24	360	6.20	0.033	2.1	6.24	14.47	-168	–	clear - No odor
1535	14.24	360	6.16	0.033	2.0	6.00	14.60	-147	–	clear "
1540	14.24	360	6.10	0.033	1.7	6.28	14.71	-103	–	clear "
1545	14.24	360	6.07	0.033	1.5	6.48	14.73	-80	–	" "
1550	14.24	360	6.08	0.032	0.8	6.55	14.63	-51	–	" "
1555	14.24	360	6.09	0.032	0.9	6.65	14.52	-38	–	" "
1600	14.24	360	6.10	0.032	0.9	6.68	14.58	-25	–	" "
1605	14.24	360	6.09	0.032	1.0	6.66	14.60	-13	–	" "
1610	14.24	360	6.07	0.032	0.7	6.58	14.57	5	–	" "
1615	14.24	360	6.02	0.032	0.8	6.63	14.61	17	–	" "
1620	14.24	360	6.00	0.032	0.7	6.59	14.60	19	–	" "
1625	14.24	360	6.00	0.032	0.6	6.61	14.56	21	–	" "
1630	14.24	360	5.99	0.032	0.5	6.58	14.60	23	–	" "
										collect sample

SIGNATURE(S): [signature]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW03S-20090901
Sample Location: Site 2
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/1/09								
Time: 1658								
Method: Low Flow	clear	6.12	0.098	17.24	2.28	5.62	162	0

PURGE DATA:

Date: 9/1/09	
Method: Low Flow	
Monitor Reading (ppm): —	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4"	
Total Well Depth (TD): 31.5	
Static Water Level (WL): 24.88	
One Casing Volume(gal/L):	
Start Purge (hrs): 1605	
End Purge (hrs): 1658	
Total Purge Time (min): 53	
Total Vol. Purged (gal/L): 6 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~~	No

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. [ ] See above

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
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW03$
DATE: 9/1/09

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	SAL %	Comments
1605	24.88	400	6.29	0.102	6.54	13.47	20.84	173	—	
1610	24.92	400	6.30	0.103	6.47	7.20	19.59	169	—	
1615	24.91	400	6.28	0.102	5.27	6.05	19.06	165	—	
1620	24.91	400	6.23	0.098	3.46	5.83	18.38	162	—	
1625	24.91	400	6.21	0.098	2.57	5.76	18.10	161	—	
1630	24.91	400	6.19	0.098	2.10	5.67	18.14	160	—	
1635	24.91	400	6.18	0.100	2.35	5.64	17.83	159	—	
1640	24.91	400	6.17	0.099	1.75	5.58	17.41	161	—	
1645	24.91	400	6.15	0.098	2.19	5.71	17.23	160	—	4.5 gal purged
1650	24.91	400	6.13	0.097	1.84	5.61	17.37	161	—	
1655	24.91	400	6.12	0.098	2.28	5.62	17.24	162	—	6 gal purged
1658	collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW-045-20090902
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-2-09								
Time: 0935								
Method: Peristaltic pump	clear	3.68	0.065	11.85	0.0	6.98	245	—

PURGE DATA:

Date: 9-2-09	
Method: Low flow	
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4 inch PVC	
Total Well Depth (TD): 27'	
Static Water Level (WL): 20.18	
One Casing Volume(gal/L):	
Start Purge (hrs): 0835	
End Purge (hrs): 0935	
Total Purge Time (min): 60	
Total Vol. Purged (gal/L): 6.0	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- pump tubing set in well at ~ 25' (TOC)
- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW04S
DATE: 9-2-09

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	SAL %	Comments
0830	20.18	—	—	—	—	—	—	—	—	Initial
0835	20.18	375	3.41	0.102	14.0	6.40	11.75	225	—	clear - start of purge
0840	20.18	375	3.51	0.095	12.8	6.57	11.69	226	—	clear
0845	20.18	375	3.54	0.089	3.4	6.96	11.67	230	—	clear
0850	20.18	375	3.55	0.084	1.5	6.89	11.67	232	—	clear
0855	20.18	375	3.59	0.075	1.1	6.86	11.69	234	—	clear
0900	20.18	375	3.62	0.070	0.9	6.98	11.71	235	—	clear
0905	20.18	375	3.65	0.068	0.0	6.93	11.76	236	—	clear
0910	20.18	375	3.67	0.068	0.0	6.92	11.77	237	—	clear
0915	20.18	375	3.69	0.066	0.0	6.97	11.81	239	—	clear
0920	20.18	375	3.69	0.066	0.0	6.94	11.83	241	—	clear
0925	20.18	375	3.68	0.066	0.0	6.97	11.86	243	—	clear
0930	20.18	375	3.69	0.066	0.0	6.95	11.87	244	—	clear
0935	20.18	375	3.68	0.065	0.0	6.98	11.85	245	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: Ft-MW05-S-20090831
Sample Location: Site 2
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/31/09								
Time: 526								
Method: Low Flow	clear	5.02	0.074	21.06	2.06	0.57	20	—

PURGE DATA:

Date: 8-31-09	
Method: Low Flow	
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material	
Type: 4inch PVC	
Total Well Depth (TD): 17.5	
Static Water Level (WL): 11.21	
One Casing Volume(gal/L):	
Start Purge (hrs): 1425	
End Purge (hrs): 1526	
Total Purge Time (min): 61 min	
Total Vol. Purged (gal/L): 8.5 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	yes

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ JB

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See above

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. [ ]

No stains or odors

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-MW05 f
DATE: 8-31-09

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	SAL %	Comments
1420	11.21	—	—	—	—	—	—	—	—	
1425	11.21	400	5.06	0.074	4.33	7.27	20.92	120	—	Initial
1430	11.21	450	4.90	0.068	2.23	1.31	20.73	136	—	clear
1435	11.21	450	4.82	0.067	1.17	1.06	20.73	145	—	
1440	11.21	450	4.81	0.067	0.53	0.95	20.68	143	—	
1446	11.21	450	4.84	0.069	0.10	0.87	20.67	131	—	
1451	11.21	450	4.86	0.070	-0.04	0.81	20.69	117	—	
1456	11.21	450	4.91	0.072	0.08	1.32	20.93	97	—	4.5 gal purged
1502	11.21	450	4.92	0.072	-0.95	0.77	21.09	86	—	
1508	11.21	450	4.96	0.072	0.35	0.68	21.12	62	—	
1513	11.21	450	4.98	0.073	0.20	0.64	21.07	45	—	
1519	11.21	450	5.00	0.073	-0.07	0.61	21.04	31	—	
1524	11.21	450	5.02	0.074	2.06	0.57	21.06	20	—	
1526	Collect sample									8.5 gal purged total

SIGNATURE(S): [illegible]

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW05I-20090831
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-31-09								
Time: 1555								
Method: Low Flow	Clear	5.03	0.033	14.60	7.2	11.90	213	—

PURGE DATA:

Date: 8-31-09	
Method: Low Flow	
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4 inch PVC	
Total Well Depth (TD): 58'	
Static Water Level (WL): 11.58	
One Casing Volume(gal/L):	
Start Purge (hrs): 1455	
End Purge (hrs): 1555	
Total Purge Time (min): 60	
Total Vol. Purged (gal/L): 6.0	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- pump set in well at ~ 55' BGS
- No stains or odors 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-MW05I
DATE: 8-31-09

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	SAL %	Comments
1455	11.58	–	–	–	–	–	–	–	–	Initial
1500	11.59	400	5.17	0.038	17.1	12.54	14.53	272	–	start - clear
1505	11.59	400	5.29	0.039	15.2	12.37	14.57	273	–	clear
1510	11.59	400	5.52	0.036	12.5	12.00	14.68	204	–	"
1515	11.59	375	5.41	0.035	9.6	11.97	14.68	197	–	"
1520	11.59	375	5.33	0.035	7.4	12.01	14.62	199	–	"
1525	11.59	375	5.21	0.035	7.9	12.02	14.58	201	–	"
1530	11.59	375	5.17	0.035	7.8	12.04	14.56	203	–	"
1535	11.59	375	5.09	0.034	8.0	11.99	14.58	206	–	"
1540	11.59	375	5.07	0.034	7.7	11.97	14.60	208	–	"
1545	11.59	375	5.06	0.034	7.5	11.95	14.57	209	–	"
1550	11.59	375	5.04	0.033	7.3	11.92	14.59	211	–	"
1555	11.59	375	5.03	0.033	7.2	11.90	14.60	213	–	" collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW-06S-20090901
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-1-09								
Time: 1050								
Method: Peristaltic pump	clear	4.88	0.034	12.75	6.0	8.90	257	—

PURGE DATA:

Date: 9-1-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0		SEE LOW FLOW PURGE DATA SHEET, Page 2						
Well Casing Diameter & Material								
Type: 4 inch PVC								
Total Well Depth (TD): 27.5'								
Static Water Level (WL): 20.39'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1003								
End Purge (hrs): 1050								
Total Purge Time (min): 47								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ]

- Pump tubing set in well at ~25' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ]

- No stains or odors 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-MW06-4
DATE: 9-1-09

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	SAL %	Comments
1000	20.39	—	—	—	—	—	—	—	—	Initial
1002	20.39	350	4.67	0.036	27.0	10.89	12.96	257	—	clear- start of purge
1005	20.39	350	4.83	0.036	21.4	10.37	12.85	252	-	clear
1010	20.39	350	4.89	0.036	17.6	10.04	12.86	255	-	clear
1015	20.39	350	4.89	0.036	13.2	10.03	12.87	255	-	clear
1020	20.39	350	4.88	0.035	12.9	9.79	12.82	259	-	clear
1025	20.39	350	4.87	0.035	12.1	9.52	12.78	260	-	clear
1030	20.39	350	4.86	0.035	11.6	9.21	12.75	257	-	clear
1035	20.39	350	4.86	0.035	8.9	9.13	12.71	259	-	clear
1040	20.39	350	4.87	0.035	7.3	8.98	12.72	256	-	clear
1045	20.39	350	4.87	0.034	6.9	8.94	12.73	257	-	clear
1050	20.39	350	4.88	0.034	6.0	8.90	12.75	257	-	clear - collect sample

SIGNATURE(S): LAA

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW06T-20090901
Sample Location: Site 2
Sampled By: SBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/1/09								
Time: 1053								
Method: Low Flow	clear	6.03	0.056	15.89	3.35	5.47	133	—

PURGE DATA:

Date: 9/1/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4"	
Total Well Depth (TD): 75	
Static Water Level (WL): 21.41	
One Casing Volume(gal/L):	
Start Purge (hrs): 0957	
End Purge (hrs): 1053	
Total Purge Time (min): 56	
Total Vol. Purged (gal/L): 6.5 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~~	No

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ SBB

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See above

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): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW06T-20090901
DATE: 9/1/09

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	SAL %	Comments
0954	21.41									
0957	21.41	400	6.27	0.085	—	6.01	15.05	93	—	trouble getting proper
1009	21.41	400	6.34	0.085	—	5.80	15.15	82	—	Flow rate w/gauges
1014	21.41	400	6.22	0.066	12.1	5.79	15.42	94		
1019	21.41	400	6.11	0.061	7.57	5.74	15.37	106		
1024	21.41	400	6.02	0.058	6.59	5.69	15.38	118	—	
1030	21.41	400	5.99	0.057	5.38	5.62	15.45	125	—	
1035	21.41	400	5.99	0.056	5.53	6.31	15.57	131	—	
1040	21.41	400	6.00	0.056	3.96	5.66	15.71	131	—	4.5 gal purged
1045	21.41	400	6.02	0.056	4.95	5.50	15.88	132	—	
1050	21.41	400	6.03	0.056	3.35	5.47	15.84	133	—	
1053	collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW07S-20090901
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-1-09								
Time: 1220								
Method: Peristaltic pump	clear	4.97	0.029	15.99	1.2	8.50	247	—

PURGE DATA:

Date: 9-1-09	
Method: Low Flow	
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4 inch PVC	
Total Well Depth (TD): 35.5'	
Static Water Level (WL): 28.82'	
One Casing Volume(gal/L):	
Start Purge (hrs): 1130	
End Purge (hrs): 1220	
Total Purge Time (min): 50	
Total Vol. Purged (gal/L): 5.0	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- pump tubing set in well at ~
- No stains or odors 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-MW07-$
DATE: 9-1-09

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	SAL %	Comments
1125	28.82'	360	–	–	–	–	–	–	–	Initial
1130	28.82'	360	4.28	0.027	13.4	8.09	16.84	283	–	clear - start purge
1135	28.82'	360	4.66	0.027	6.0	8.24	16.55	274	–	clear
1140	28.82'	360	4.97	0.028	2.4	8.38	16.38	265	–	clear
1145	28.82'	360	4.96	0.029	1.8	8.40	16.17	263	–	clear
1150	28.82'	360	4.96	0.029	1.9	8.53	16.02	260	–	clear
1155	28.82	360	4.97	0.029	1.5	8.55	15.98	259	–	clear
1200	28.82	360	4.97	0.029	1.3	8.53	16.01	255	–	clear
1205	28.82	360	4.97	0.029	1.4	8.52	15.97	252	–	clear
1210	28.82	360	4.97	0.029	1.2	8.54	16.00	250	–	clear
1215	28.82	360	4.97	0.029	1.1	8.51	16.03	248	–	clear
1220	28.82	360	4.97	0.029	1.2	8.50	15.99	247	–	clear - collect sample

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW-08$-20090901
Sample Location: Site 2
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-1-09								
Time: 0935								
Method: Peristaltic pump	clear	5.33	0.048	15.14	7.9	0.89	-60	—

PURGE DATA:

Date: 9-1-09	
Method: Low Flow	
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4 inch PVC	
Total Well Depth (TD): 14'	
Static Water Level (WL): 7.71'	
One Casing Volume(gal/L):	
Start Purge (hrs): 0830	
End Purge (hrs): 0935	
Total Purge Time (min): 65	
Total Vol. Purged (gal/L): 5.5	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Peristaltic pump used for Purge / sampling. Pump Tubing set in well at ~ 13' (TOC)
- No stains or odors 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-MW08-S
DATE: 9-1-09

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	SAL %	Comments
0750	7.71	–	–	–	–	–	–	–	–	Initial
0830	7.72	360	5.04	0.049	15.1	0.91	14.33	118	–	clear - start purge
0835	7.72	360	5.16	0.047	11.5	0.79	14.63	95	–	clear
0840	7.72	360	5.26	0.047	13.3	0.74	14.69	72	–	clear
0845	7.72	360	5.27	0.048	12.7	0.76	14.74	49	–	clear
0850	7.72	360	5.27	0.048	12.3	0.79	14.79	27	–	clear
0855	7.72	360	5.28	0.048	12.1	0.82	14.87	13	–	clear
0900	7.72	360	5.29	0.048	11.8	0.83	14.91	-2	–	clear
0905	7.72	360	5.30	0.048	10.4	0.82	14.94	-16	–	clear
0910	7.72	360	5.30	0.048	9.8	0.83	14.99	-22	–	clear
0915	7.72	360	5.31	0.048	9.3	0.85	15.02	-35	–	clear
0920	7.72	360	5.31	0.048	9.0	0.86	15.06	-50	–	clear
0925	7.72	360	5.31	0.048	8.6	0.88	15.10	-55	–	clear
0930	7.72	360	5.32	0.048	8.2	0.88	15.12	-58	–	clear
0935	7.72	360	5.33	0.048	7.9	0.89	15.14	-60	–	clear - collect sample

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: FT-MW08I-20090901
Sample Location: Site 2
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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/1/09								
Time: 0900								
Method: Low Flow	clear	5.45	0.114	15.68	0.32	2.35	185	—

PURGE DATA:

Date: 9/1/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 4"	
Total Well Depth (TD): 33	
Static Water Level (WL): 7.79	
One Casing Volume(gal/L):	
Start Purge (hrs): 0802	
End Purge (hrs): 0900	
Total Purge Time (min): 58	
Total Vol. Purged (gal/L): 6gal	

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~~	NO

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ JBS 9/1/09
4" well
See above
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. [ ]

No stains or odors

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: FT-MW08I-20090901
DATE: 9/1/09

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	SAL %	Comments
0802	7.79									
0803	7.79	300	4.79	0.131	23.6	4.83	14.81	241	—	
0809	7.79	300	5.06	0.125	20.4	3.01	15.24	237	—	
0814	7.79	320	5.13	0.117	6.76	2.39	15.59	232	—	
0819	7.79	320	5.17	0.115	4.14	2.33	15.62	230	—	
0825	7.79	320	5.24	0.114	3.21	2.25	15.62	224	—	
0831	7.79	320	5.29	0.114	2.57	2.39	15.68	216	—	
0836	7.79	320	5.34	0.114	0.95	~~0.95~~ 2.39	15.66	210	—	
0841	7.79	320	5.38	0.114	1.79	2.35	15.65	202	—	4.5 gal
0848	7.79	320	5.41	0.114	-0.67	2.37	15.66	193	—	
0853	7.79	320	5.43	0.115	0.21	2.33	15.66	189	—	
0858	7.79	320	5.45	0.114	0.32	2.35	15.68	185	—	
0900	Collect sample									6 gal

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-118S-20090902
Sample Location: Southern Area
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/2/2009								
Time: 0908								
Method: Low Flow	clear	5.68	0.139	19.02	6.45	0.45	-61	—

PURGE DATA:

Date: 9/2/2009	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 18	
Static Water Level (WL): 5.16	
One Casing Volume(gal/L):	
Start Purge (hrs): 0812	
End Purge (hrs): 0908	
Total Purge Time (min): 56	
Total Vol. Purged (gal/L): 6.0 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	yes

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See above

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.:	Time 1310	Signature(s):
—	SA-Dup02-20090902		[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G01655

WELL ID.: SA-PZ-118S
DATE: 9/2/09

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
0812	5.16									
0816	5.18	350	5.33	0.146	164	3.12	17.26	-20	—	
0821	5.18	350	5.45	0.138	126	1.31	17.97	-37	—	brown murky water
0826	5.18	350	5.52	0.135	85.3	0.78	18.50	-46	—	organic smell
0831	5.18	350	5.54	0.135	44.5	0.68	18.69	-48	—	
0836	5.18	350	5.50	0.135	33.8	0.61	18.77	-49	—	
0841	5.18	350	5.57	0.136	25.1	0.56	18.85	-51	—	
0846	5.19	350	5.58	0.137	17.2	0.54	18.86	-53	—	
0851	5.19	350	5.60	0.138	13.3	0.52	18.89	-55	—	
0856	5.19	350	5.63	0.139	10.13	0.50	18.92	-57	—	
0901	5.19	350	5.66	0.139	8.28	0.48	18.96	-59	—	4.5 gal purged
0906	5.19	350	5.68	0.139	6.45	0.45	19.02	-61	—	
0908	Collect sample w/ duplicate (SA-Dup02-20090902)									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: MSA-PZ118I-20090902
Sample Location: SA-PZ118I
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/2/09								
Time: 1052								
Method: Low Flow	Clear	6.28	0.080	16.41	36.1	1.97	101	0

PURGE DATA:

Date: 9/2/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 60	
Static Water Level (WL): 5.67	
One Casing Volume(gal/L):	
Start Purge (hrs): 0952	
End Purge (hrs): 1052	
Total Purge Time (min): 60	
Total Vol. Purged (gal/L): 6 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	yes

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): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA.PZ-118I
DATE: 9/2/09

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	SAL %	Comments
0949	5.67									
0952	5.69	375	5.94	0.075	147	5.75	16.05	54	—	slight brown water
0958	5.70	375	5.99	0.077	130	2.12	15.84	82	—	
1003	5.68	400	6.06	0.077	304	2.81	16.10	89	—	More turbid light brown H_2O
1008	5.68	400	6.12	0.079	213	2.93	16.21	94	—	
1013	5.68	400	6.15	0.079	138	2.79	16.17	96	—	2.5 gal purged
1019	5.68	400	6.19	0.079	118	2.33	16.27	98	—	
1024	5.68	400	6.22	0.080	98.4	2.31	16.40	99	—	
1029	5.68	400	6.23	0.080	76.8	2.11	16.41	99	—	
1034	5.68	400	6.25	0.080	63.8	2.10	16.43	100	—	
1039	5.68	400	6.26	0.080	56.9	2.13	16.43	100	—	
1045	5.68	400	6.28	0.080	45.9	1.86	16.37	100	—	
1050	5.68	400	6.28	0.080	36.1	1.97	16.41	101	—	6 gal purged
1052	Collect sample									

SIGNATURE(S): [illegible]

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-1205-20090909
Sample Location: Southern Area
Sampled By: SBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/9/09								
Time: 1345								
Method: Low Flow	clear	5.10	0.091	16.82	6.16	3.46	215	—

PURGE DATA:

Date: 9/9/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD):								
Static Water Level (WL): 6.50								
One Casing Volume(gal/L):								
Start Purge (hrs): 1300								
End Purge (hrs): 1345								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 4.5								

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	

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-PZ-120S
DATE: 9/9/09

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	SAL %	Comments
1250	6.50	—	—	—	—	—	—	—	—	Initial
1300	6.50	300	5.56	0.149	184	3.84	16.78	200	—	initial orange water
1305	6.50	300	5.55	0.149	Err4	3.32	16.37	206	—	fuzzy floating particulate
1310	6.51	300			Err4					algae
1311	VS open	horiba	dump water due to algae accumulation							
1312	restart purge	300	5.23	0.130	14.2	3.46	17.51	224	—	
1318	6.51	300	5.16	0.125	7.11	3.35	17.01	229	—	
1323	6.51	350	5.13	0.118	5.32	3.34	16.87	224	—	
1328	6.51	350	5.14	0.107	4.59	3.63	16.83	225	—	
1333	6.51	350	5.12	0.106	3.75	3.43	16.81	218	—	3 gal
1338	6.51	350	5.12	0.101	5.23	3.42	16.85	215	—	
1343	6.51	350	5.10	0.099	6.16	3.46	16.82	215	—	4.5 gal
1345	Collect sample									

SIGNATURE(S): [signature]

PAGE 2 OF /

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-122S-20090902
Sample Location: SA-PZ-122S
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/2/09								
Time: 1310								
Method: Low Flow	clear	5.13	0.113	17.86	1.79	1.86	215	0

PURGE DATA:

Date: 9/2/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 22	
Static Water Level (WL): 15.01	
One Casing Volume(gal/L):	
Start Purge (hrs): 1216	
End Purge (hrs): 1310	
Total Purge Time (min): 54	
Total Vol. Purged (gal/L): 6.5 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	no

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See above

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-PZ-122S
DATE: 9/2/09

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	SAL %	Comments
1210	15.01									
1216	15.01	300	5.21	0.133	54.5	3.99	17.99	173	—	
1221	15.01	400	5.07	0.121	43.8	2.04	18.34	209	—	
1226	15.01	400	5.04	0.113	33.8	1.99	18.65	218	—	
1231	15.01	400	5.06	0.112	20.2	2.00	19.05	220	—	
1236	15.01	400	5.07	0.111	13.4	1.99	18.31	224	—	
1243	15.01	400	5.08	0.110	7.72	1.93	18.07	226	—	
1248	15.01	400	5.10	0.111	3.68	2.08	18.12	227	—	4.5 gal
1253	15.01	400	5.10	0.113	3.43	1.91	18.23	224	—	
1258	15.01	400	5.11	0.114	3.31	1.89	17.95	222	—	
1303	15.01	400	5.12	0.113	1.82	1.76	17.84	220	—	
1308	15.01	400	5.13	0.113	1.79	1.86	17.86	215	—	6.5 gal
1310	Collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-122I-20090902
Sample Location: SA-PZ-122I
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/2/09								
Time: 1435								
Method: Low Flow	C							

PURGE DATA:

Date: 9/2/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2"								
Total Well Depth (TD): 49								
Static Water Level (WL): 14.78								
One Casing Volume(gal/L):								
Start Purge (hrs): 1343								
End Purge (hrs): 1435								
Total Purge Time (min): 52								
Total Vol. Purged (gal/L): 6.5 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	no

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See above

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-PZ-122I
DATE: 9/2/09

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	SAL %	Comments
1340	14.78									
1343	14.79	400	6.15	0.119	114	9.87	16.85	146	—	
1348	14.79	400	6.20	0.120	87.7	1.97	16.73	123	—	
1353	14.79	400	6.16	0.122	63.2	1.64	16.77	121	—	
1358	14.79	400	6.16	0.120	42.0	1.61	16.70	125	—	2 gal
1403	14.79	400	6.15	0.121	32.9	1.53	16.43	131	—	
1408	14.79	400	6.14	0.121	18.8	1.56	16.36	134	—	
1413	14.79	400	6.12	0.122	15.0	1.55	16.36	137	—	
1418	14.79	400	6.10	0.121	11.0	1.53	16.40	141	—	
1423	14.79	400	6.10	0.122	10.45	1.44	16.44	142	—	
1428	14.79	400	6.08	0.122	6.72	1.41	16.48	146	—	
1433	14.79	400	6.06	0.122	5.34	1.46	16.43	149	—	
1435	Collect sample									
										6.5 gal

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-122D-20090903
Sample Location: SA-PZ-122D
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/2/09								
Time: 0909								
Method: Low Flow	clear	5.91	0.124	14.69	39.8	2.29	-65	—

PURGE DATA:

Date: 9/2/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 132	
Static Water Level (WL): 14.03	
One Casing Volume(gal/L): 3 gal	JBB 9/2/09
Start Purge (hrs): 0813	
End Purge (hrs): 0909	
Total Purge Time (min): 56	
Total Vol. Purged (gal/L): 7 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	No

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. See about

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-PZ-122D
DATE: 9/3/09

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	SAL %	Comments
0809	14.03									
0813	14.09	450	5.27	0.107	185	12.90	14.22	-9	—	
0818	14.11	400	5.55	0.115	Err 4	7.33	14.18	-34	—	
0824	14.12	450	5.68	0.122	1407	5.79	14.10	-43	—	Gray turbid water
0829	14.09	400	5.72	0.122	1074	5.25	14.22	-47	—	Silt, F. sand
0834	14.09	400	5.76	0.122	269	4.65	14.26	-52	—	
0839	14.09	400	5.79	0.122	217	4.21	14.30	-54	—	
0843	14.09	400	5.82	0.123	154	3.77	14.36	-58	—	
0848	14.10	400	5.83	0.123	138	3.46	14.40	-59	—	
0853	14.10	400	5.86	0.124	94.4	3.04	14.46	-61	—	4.5 gal
0858	14.10	400	5.88	0.124	61.8	2.75	14.53	-63	—	
0902	14.10	400	5.90	0.124	47.0	2.46	14.65	-64	—	
0907	14.10	400	5.91	0.124	39.8	2.29	14.69	-65	—	
0909	Collect	sample								7 gal purged

SIGNATURE(S): [illegible]

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-123$-20090902
Sample Location: Southern Area
Sampled By:

[ ] 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: 9-2-09	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1140								
Method: Peristaltic pump	clear	4.57	0.075	16.43	0.0	1.91	-76	—

PURGE DATA:

Date: 9-2-09								
Method: Low flow								
Monitor Reading (ppm): 0.0		SEE LOW FLOW PURGE DATA SHEET, Page 2						
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 9.31								
One Casing Volume(gal/L):								
Start Purge (hrs): 1040								
End Purge (hrs): 1140								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump tubing set in well of ~15' (TOC)
- No stains or odors 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-123-P
DATE: 9-2-09

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	SAL %	Comments
1035	9.31	—	—	—	—	—	—	—	—	Initial
1040	9.31	375	4.46	0.091	2.5	3.00	15.43	-63	—	clear - start of purge
1045	9.31	375	4.64	0.088	2.0	3.71	15.78	-90	—	clear
1050	9.31	375	4.61	0.084	1.2	3.08	16.07	-81	—	clear
1055	9.31	375	4.53	0.078	0.2	2.74	16.20	-73	—	clear
1100	9.31	375	4.53	0.076	0.0	2.27	16.18	-73	—	clear
1105	9.31	375	4.54	0.075	0.0	2.05	16.22	-73	—	clear
1110	9.31	375	4.55	0.073	0.0	1.89	16.30	-75	—	clear
1115	9.31	375	4.56	0.074	0.0	1.91	16.37	-75	—	clear
1120	9.31	375	4.55	0.074	0.0	1.94	16.32	-74	—	clear
1125	9.31	375	4.56	0.074	0.0	1.90	16.36	-74	—	clear
1130	9.31	375	4.56	0.075	0.0	1.92	16.38	-75	—	clear
1135	9.31	375	4.57	0.074	0.0	1.90	16.40	-76	—	clear
1140	9.31	375	4.57	0.075	0.0	1.91	16.43	-76	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-123I1-20090902
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-2-09								
Time: 1310								
Method: Redi-Flow pump	clear	5.18	0.076	14.09	0.0	0.19	31	—

PURGE DATA:

Date: 9-2-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 43.5'								
Static Water Level (WL): 9.88'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1210								
End Purge (hrs): 1310								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.75								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump set in well at ~ 42' (TOC)

- No stains or odors 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-123I1
DATE: 9-2-09

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	SAL %	Comments
1205	9.88	—	—	—	—	—	—	—	—	Initial
1210	9.88	375	5.16	0.077	2.4	0.79	14.65	-28	—	clear - start of purge
1215	9.88	375	5.16	0.077	1.8	0.48	14.40	-17	—	clear
1220	9.88	375	5.16	0.076	1.0	0.39	14.25	-2	—	clear
1225	9.88	375	5.17	0.076	0.0	0.33	14.12	8	—	clear
1230	9.88	375	5.19	0.076	0.0	0.29	14.09	14	—	clear
1235	9.88	375	5.19	0.076	0.0	0.27	14.05	17	—	clear
1240	9.88	375	5.19	0.076	0.0	0.25	14.06	23	—	clear
1245	9.88	375	5.19	0.076	0.0	0.23	14.04	24	—	clear
1250	9.88	375	5.18	0.076	0.0	0.22	13.99	26	—	clear
1255	9.88	375	5.18	0.076	0.0	0.21	13.98	28	—	clear
1300	9.88	375	5.19	0.076	0.0	0.20	14.00	29	—	clear
1305	9.88	375	5.18	0.076	0.0	0.21	14.02	30	—	
1310	9.88	375	5.18	0.076	0.0	0.19	14.04	31	—	clear - collect sample

SIGNATURE(S): [illegible]

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-PZ-123I-20090902
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-2-09								
Time: 1435								
Method: Redi-Flow pump	clear	5.72	0.097	13.41	6.9	0.17	-136	–

PURGE DATA:

Date: 9-2-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 80'								
Static Water Level (WL): 10.47'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1335								
End Purge (hrs): 1435								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.75								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~ VAS

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. [ ]

- pump set in well at ~78' (TOC)
- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): VAS

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-PZ-123I
DATE: 9-2-09

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	SAL %	Comments
1330	10.47'	~~386~~	—	—	—	—	—	—	—	Initial
1335	10.47	380	4.84	0.093	18.7	1.89	14.81	-51	—	clear - start purge
1340	10.47	375	5.46	0.100	18.0	0.76	14.31	-100	—	clear
1345	10.47	375	5.65	0.098	18.7	0.29	13.79	-113	—	clear
1350	10.47	375	5.68	0.097	17.6	0.25	13.67	-118	—	clear
1355	10.47	375	5.72	0.097	17.3	0.20	13.56	-124	—	clear
1400	10.47	375	5.70	0.097	17.0	0.20	13.52	-125	—	clear
1405	10.47	375	5.70	0.097	13.4	0.18	13.45	-127	—	clear
1410	10.47	375	5.68	0.097	12.8	0.17	13.37	-126	—	clear
1415	10.47	375	5.70	0.097	12.1	0.17	13.39	-130	—	clear
1420	10.47	375	5.72	0.097	10.6	0.18	13.37	-132	—	clear
1425	10.47	375	5.70	0.097	8.1	0.17	13.35	-134	—	clear
1430	10.47	375	5.72	0.097	7.7	0.18	13.39	-135	—	clear
1435	10.47	375	5.72	0.097	6.9	0.17	13.41	-136	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Peizometer
[] QA Sample Type:

Sample ID No.: SA-PZ-124-20090917
Sample Location: SA-PZ-124
Sampled By: VAS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9-17-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1252								
Method: disposable bailer	Tinted Brown	—	—	—	—	—	—	—

PURGE DATA:

Date: 9-17-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Hand Bailer	NA							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 1" Stainless								
Total Well Depth (TD): ~6.0'								
Static Water Level (WL): NA								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 X 40 ml vials	3

OBSERVATIONS / NOTES:

- purged ~750 ml with 150 ml disposable hand bailer prior to sample collection (5 bails)
- Sample location: 270301.86N 1323834.00E (State Plane NAD 1983 datum)
- Peconic River Peizometer

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.: CTO-160

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: Peizometer
[] QA Sample Type:

Sample ID No.: SA-PZ-125-20090917
Sample Location: SA-PZ-125
Sampled By: VAS
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: 9-17-09								
Time: 1220								
Method: disposable bailer	Slightly Tinted	—	—	—	—	—	—	Some fine sediment

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9-17-09								
Method: Hand Bailer	NA							
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 1" stainless								
Total Well Depth (TD): ~6'								
Static Water Level (WL): NA								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
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

OBSERVATIONS / NOTES:

- Purged ~750 ml with 150 ml disposable hand bailer prior to sample collection (5 bails)
- Sample location: 270734.27 N 1324509.07 E (State Plane NAD 1983 datum)
- Peizometer on Peconic River

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
GROUNDWATER INVEST.

Sample ID No.: SA-MW126S-20090903
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/3/09								
Time: 1415								
Method: Low Flow	Clear	5.26	0.039	18.23	0.83	0.35	-5	0

PURGE DATA:

Date: 9/3/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 15								
Static Water Level (WL): 5.32								
One Casing Volume(gal/L):								
Start Purge (hrs): 1314								
End Purge (hrs): 1415								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 7.5 gal								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	Y-S
~~MEE~~	~~HCL/4 DEG C~~	~~2- 40ml vials~~	no

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW1265
DATE: 9/3/09

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	SAL %	Comments
1310	5.32									
1314	5.35	400	5.73	0.046	82.3	8.35	19.19	5	—	
1319	5.36	400	5.47	0.042	23.1	0.91	19.31	8	—	
1324	5.36	400	5.40	0.042	13.1	0.72	19.25	8	—	
1329	5.36	400	5.36	0.041	10.24	0.62	19.18	8	—	
1332	5.36	400	5.35	0.040	6.41	0.55	19.10	6	—	
1338	5.36	400	5.33	0.040	5.14	0.50	19.06	5	—	
1343	5.36	400	5.33	0.039	3.20	0.46	19.12	3	—	4 gal
1348	5.36	375	5.34	0.039	5.23	0.66	19.77	-1	—	
1353	5.36	375	5.28	0.039	3.39	0.44	19.29	0		
1358	5.36	400	5.29	0.039	2.10	0.42	18.29	-2	—	
1403	5.36	400	5.28	0.039	1.14	0.39	18.25	-3	—	
1408	5.36	400	5.27	0.039	1.09	0.37	18.23	-5	—	
1413	5.36	400	5.26	0.039	0.83	0.35	18.23	-5	—	7.5
1415	Collect Sample									

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW126I-20090903
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/3/09								
Time: 1243								
Method: Low Flow	clear	6.34	0.130	15.96	17.8	0.38	-36	—

PURGE DATA:

Date: 9/3/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 50	
Static Water Level (WL): 5.44	
One Casing Volume(gal/L):	
Start Purge (hrs): 1151	
End Purge (hrs): 1243	
Total Purge Time (min): 52	
Total Vol. Purged (gal/L): 6 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~~	no

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW126I
DATE: 9/3/07

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	SAL %	Comments
1147	5.44									
1151	5.44	375	6.82	0.131	172	7.64	17.61	-40	—	red/brown (staining on tubing)
1156	5.44	375	6.38	0.138	231	1.08	17.61	-25	—	
1201	5.44	375	6.33	0.132	150	0.75	17.18	-16	—	
1206	5.44	375	6.31	0.137	84.2	0.73	17.06	-22	—	
1211	5.44	375	6.34	0.134	83.1	0.58	17.06	-32	—	
1216	5.44	375	6.34	0.135	71.5	0.93	17.18	-34	—	3 gal (pump temporarily shut off)
1221	5.44	400	6.35	0.131	43.3	0.52	15.91	-33	—	
1226	5.45	400	6.35	0.130	30.5	0.46	16.16	-35	—	
1230	5.45	400	6.35	0.130	23.8	0.43	16.28	-36	—	
1235	5.45	400	6.33	0.130	21.2	0.40	15.92	-36	—	5.5 gal
1240	5.45	400	6.34	0.130	17.8	0.38	15.96	-36	—	6 gal
1243	Collect sample									

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW126b-20090903
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/3/09								
Time: 1110								
Method: Low Flow	clear	7.17	0.112	16.29	154	0.44	-120	—

PURGE DATA:

Date: 9/3/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 84								
Static Water Level (WL): 7.26								
One Casing Volume(gal/L):								
Start Purge (hrs): 1011								
End Purge (hrs): 1110								
Total Purge Time (min): 59								
Total Vol. Purged (gal/L): 6.5 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~~	no

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. see above

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW126D
DATE: 9/3/09

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	SAL %	Comments
1003	7.26									
1011	7.31	475	6.74	0.134	36.1	10.06	16.29	-92	—	
1017	7.27	400	7.02	0.134	Err 4	1.91	16.07	-111	—	Brn/Gray Water
1021	7.26	400	7.14	0.131	Err 4	0.87	16.33	-123	—	
1028	7.26	400	7.20	0.125	1499	0.59	16.25	-135	—	
1033	7.26	400	7.20	0.123	1499	0.54	16.09	-134	—	
1038	7.26	400	7.20	0.121	Err 4	0.49	16.02	-133	—	
1043	7.26	400	7.19	0.119	886	0.63	15.96	-130	—	
1048	7.26	400	7.18	0.116	Err 4	0.77	15.88	-127	—	4.5 gal
1053	7.26	375	7.18	0.115	219	0.49	16.26	-124	—	
1058	7.26	375	7.18	0.114	210	0.47	16.32	-123	—	
1103	7.26	375	7.18	0.113	151	0.46	16.27	-121	—	
1108	7.26	375	7.17	0.112	154	0.44	16.29	-120	—	
1110	Collect sample									

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-127S-20090903
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-3-09								
Time: 0945								
Method: Peristaltic pump	Clear	4.61	0.040	15.67	8.0	2.44	176	—

PURGE DATA:

Date: 9-3-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2 inch PVC								
Total Well Depth (TD): 15'								
Static Water Level (WL): 7.17'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0840								
End Purge (hrs): 0945								
Total Purge Time (min): 65								
Total Vol. Purged (gal/L): 6.25								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

~~2" MW = 0.163 gal/ft~~

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ]

- Pump Tubing set in well at ~ 14' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ]

- No odors or stains observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-127S
DATE: 9-3-09

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	SAL %	Comments
0835	7.17	—	—	—	—	—	—	—	—	Initial
0840	7.17	375	3.60	0.041	138.5	3.80	15.03	128	—	Tinted orange - start of purge
0845	7.17	375	4.02	0.039	74.2	4.77	15.04	177	—	Tinted orange
0850	7.17	375	4.17	0.039	56.0	5.36	15.12	182	—	Tinted orange
0855	7.17	375	4.19	0.039	43.3	5.42	15.15	184	—	slight Tint orange
0900	7.17	375	4.25	0.039	29.1	5.20	15.18	186	—	Slight Tint orange
0905	7.17	375	4.29	0.039	26.0	4.76	15.22	186	—	very slight Tint orange
0910	7.17	375	4.35	0.039	19.9	3.87	15.37	184	—	clear
0915	7.17	375	4.46	0.039	17.2	3.44	15.45	180	—	clear
0920	7.17	375	4.63	0.039	15.8	3.07	15.53	172	—	clear
0925	7.17	375	4.62	0.040	13.9	2.82	15.57	173	—	clear
0930	7.17	375	4.61	0.040	10.4	2.68	15.59	174	—	clear
0935	7.17	375	4.60	0.040	8.8	2.54	15.62	175	—	clear
0940	7.17	375	4.61	0.040	8.5	2.48	15.65	175	—	clear
0945	7.17	375	4.61	0.040	8.0	2.44	15.67	176	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-127I-20090903
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-3-09								
Time: 1100								
Method: Redi-Flow pump	Clear	5.16	0.083	13.07	0.0	0.19	42	—

PURGE DATA:

Date: 9-3-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2inch PVC								
Total Well Depth (TD): 40'								
Static Water Level (WL): 7.40								
One Casing Volume(gal/L):								
Start Purge (hrs): 0900								
End Purge (hrs): 1000								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump set in well at ~ 38' (TOC)
- No stains or odors observed

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-127I
DATE: 9-3-09

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	SAL %	Comments
0955	7.40	–	–	–	–	–	–	–	–	Initial
1000	7.40	390	5.17	0.090	1.4	0.88	13.54	-62	–	clear - start purge
1005	7.40	375	5.12	0.085	0.5	0.38	13.19	-41	–	"
1010	7.40	375	5.11	0.084	0.0	0.36	13.20	-20	–	"
1015	7.40	375	5.11	0.084	0.0	0.34	13.16	-3	–	"
1020	7.40	375	5.13	0.084	0.0	0.30	13.11	18	–	"
1025	7.40	375	5.15	0.084	0.0	0.28	13.11	22	–	"
1030	7.40	375	5.15	0.084	0.0	0.25	13.09	29	–	"
1035	7.40	375	5.16	0.083	0.0	0.23	13.07	34	–	"
1040	7.40	375	5.15	0.083	0.0	0.22	13.09	36	–	"
1045	7.40	375	5.15	0.083	0.0	0.21	13.06	39	–	"
1050	7.40	375	5.16	0.083	0.0	0.20	13.07	40	–	"
1055	7.40	375	5.16	0.083	0.0	0.19	13.05	41	–	"
1100	7.40	375	5.16	0.083	0.0	0.19	13.07	42	–	" - collect sample

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-127D-20090903
Sample Location: Southern Area
Sampled By: VAS

[ ] 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
	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Date: 9-3-09								
Time: 1230								
Method: Redi-Flow pump	clear	6.50	0.081	13.30	0.0	0.22	-182	–

PURGE DATA:

Date: 9-3-09								
Method: Low flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2inch PVC								
Total Well Depth (TD): 80'								
Static Water Level (WL): 8.67'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1130								
End Purge (hrs): 1230								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump set in well at ~78' (rec)
- No odors or stains 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: 9-3-09

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	SAL %	Comments
1125	8.67	—	—	—	—	—	—	—	—	Initial
1130	8.67	470	4.86	0.116	10.5	1.53	14.40	-110	—	clear - start of purge
1135	8.67	390	6.86	0.096	3.1	0.79	13.61	-184	—	clear
1140	8.67	375	6.65	0.086	0.0	0.50	13.58	-192	—	"
1145	8.67	375	6.61	0.084	0.0	0.52	13.50	-191	—	"
1150	8.67	375	6.52	0.082	0.0	0.40	13.45	-183	—	"
1155	8.67	375	6.52	0.082	0.0	0.32	13.44	-184	—	"
1200	8.67	375	6.44	0.081	0.0	0.28	13.33	-179	—	"
1205	8.67	375	6.45	0.080	0.0	0.30	13.30	-178	—	"
1210	8.67	375	6.47	0.081	0.0	0.27	13.31	-180	—	"
1215	8.67	375	6.48	0.080	0.0	0.25	13.31	-181	—	"
1220	8.67	375	6.49	0.081	0.0	0.23	13.30	-181	—	"
1225	8.67	375	6.50	0.080	0.0	0.24	13.32	-181	—	"
1230	8.67	375	6.50	0.081	0.0	0.22	13.30	-182	—	" - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-1285-20090903
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-3-09								
Time: 1410								
Method: Peristaltic pump	Clear	4.63	0.046	15.13	13.2	0.30	119	—

PURGE DATA:

Date: 9-3-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 17'								
Static Water Level (WL): 9.16'								
One Casing Volume(gal/L):								
Start Purge (hrs): 1312								
End Purge (hrs): 1410								
Total Purge Time (min): 58								
Total Vol. Purged (gal/L): 5.75								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	2

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump tubing set in well at ~ 16' (TOC)
- No stains or odors 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-128S
DATE: 9-3-09

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	SAL %	Comments
1300	9.16	–	–	–	–	–	–	–	–	Initial
1312	9.16	400	4.55	0.057	88.5	0.99	14.59	67	–	Tinted orange - start of purge
1315	9.16	375	4.74	0.047	62.1	0.57	14.79	72	–	Tinted orange
1320	9.16	375	4.71	0.046	46.0	0.38	14.95	93	–	slight Tint orange
1325	9.16	375	4.64	0.045	31.7	0.32	14.99	108	–	very slight Tint orange
1330	9.16	375	4.62	0.045	22.4	0.32	15.04	118	–	clear
1335	9.16	375	4.62	0.046	18.8	0.32	15.06	119	–	clear
1340	9.16	375	4.63	0.045	12.5	0.32	15.08	119	–	clear
1345	9.16	375	4.63	0.046	18.3	0.31	15.11	119	–	clear
1350	9.16	375	4.62	0.046	16.0	0.31	15.12	118	–	clear
1355	9.16	375	4.63	0.046	14.9	0.30	15.13	118	–	clear
1400	9.16	375	4.63	0.046	14.0	0.31	15.12	118	–	clear
1410	9.16	375	4.63	0.046	13.2	0.30	15.13	119	–	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-12B I-20070904
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/4/09								
Time: 0923								
Method: Low Flow	clear	5.38	0.056	15.88	8.81	1.74	86	—

PURGE DATA:

Date: 9/4/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 40								
Static Water Level (WL): 9.62								
One Casing Volume(gal/L):								
Start Purge (hrs): 0809								
End Purge (hrs): 0923								
Total Purge Time (min): 873								
Total Vol. Purged (gal/L): 8 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	yes

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-12B I
DATE: 9/4/09

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	SAL %	Comments
0805	9.62									
0809	9.64	600	5.12	0.100	156	2.55	13.84	116	—	initial turbid water
0814	9.63	375	5.24	0.095	119	1.00	14.31	95	—	
0820	9.63	375	5.25	0.096	77.5	0.71	14.89	91	—	
0825	9.63	375	5.27	0.095	81.5	0.66	15.09	90	—	
0830	9.63	375	5.29	0.096	50.4	0.64	15.37	89	—	
0836	9.63	375	5.31	0.095	38.4	3.82	15.70	89	—	
0841	9.63	375	5.30	0.093	28.4	4.09	15.72	89	—	4.5 gal
0846	9.63	375	5.29	0.094	27.3	3.72	15.49	90	—	
0851	9.63	375	5.30	0.094	23.6	3.25	15.45	89	—	
0856	9.63	400	5.31	0.094	14.0	2.91	15.35	89	—	
0901	9.63	400	5.35	0.094	13.6	2.48	15.54	86	—	
0906	9.63	400	5.36	0.095	12.1	2.18	15.62	86	—	
0911	9.63	400	5.37	0.095	9.12	1.89	15.76	86	—	
0916	9.63	400	5.38	0.095	9.13	1.80	15.85	86	—	
0921	9.63	400	5.38	0.095	8.81	1.74	15.88	86	—	
0923	collect sample									

SIGNATURE(S): [signature]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-128D-20090903
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/3/09								
Time: 1611								
Method: Low Flow	clear	5.52	0.075	16.22	128	0.52	-12	—

PURGE DATA:

Date: 9/3/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD): 68	
Static Water Level (WL): 9.63	
One Casing Volume(gal/L):	
Start Purge (hrs): 1510	
End Purge (hrs): 1611	
Total Purge Time (min): 61	
Total Vol. Purged (gal/L): 8 gal	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	Y<S
MEE	HCL/4 DEG C	2- 40ml vials	Y<S

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):
—	SA-Dup03-20090903 Time 1200	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-128D-20090903
DATE: 9/3/09

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	SAL %	Comments
1505	9.63									
1510	9.69	600	5.88	0.079	Err 4	3.55	17.26	-9	—	
1515	9.68	400	5.63	0.078	4150	0.83	15.74	-2	—	very silty brown water
1520	9.68	400	5.60	0.077	1676	1.80	16.13	-1	—	
1525	9.68	400	5.59	0.076	1507	0.71	16.42	-4	—	
1533	9.68	400	5.57	0.076	926	0.31	16.29	-7	—	
1538	9.68	400	5.56	0.076	363	0.91	16.29	-8	—	
1543	9.68	375	5.55	0.076	291	0.58	16.27	-8	—	4.5 gal
1548	9.68	375	5.54	0.076	240	0.50	16.33	-11	—	
1553	9.68	375	5.54	0.075	225	0.47	16.29	-12	—	
1558	9.68	375	5.54	0.076	170	0.41	16.27	-12	—	
1603	9.68	375	5.53	0.075	191	0.40	16.26	-12	—	
1608	9.68	375	5.52	0.075	128	0.52	16.22	-12	—	
1611	Collect Sample									8 gal

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-129S-20090903
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-3-09								
Time: 1615								
Method: Redi-Flow pump	Clear	5.83	0.124	13.30	0.0	0.35	-111	—

PURGE DATA:

Date: 9-3-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 29.5'								
Static Water Level (WL): 22.44								
One Casing Volume(gal/L):								
Start Purge (hrs): 1515								
End Purge (hrs): 1615								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.75								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3x3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- pump set in well at ~27.5' (TOC)
- No odors or stains observed

Circle if Applicable:

MS/MSD: Yes

Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-129S
DATE: 9-3-09

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	SAL %	Comments
1510	22.44	—	—	—	—	—	—	—	—	Initial
1515	22.44	400	4.53	0.122	3.9	2.15	14.40	-66	—	clear - start of purge
1520	22.44	350	5.61	0.127	1.5	0.62	13.65	-125	—	clear
1525	22.44	350	5.76	0.125	0.8	0.54	13.74	-123	—	clear
1530	22.44	350	5.81	0.124	0.1	0.47	13.48	-120	—	clear
1535	22.44	350	5.75	0.124	0.0	0.43	13.39	-116	—	clear
1540	22.44	350	5.75	0.124	0.0	0.37	13.38	-112	—	clear
1545	22.44	350	5.77	0.124	0.0	0.39	13.35	-111	—	clear
1550	22.44	350	5.79	0.124	0.0	0.33	13.33	-111	—	clear
1555	22.44	350	5.81	0.124	0.0	0.29	13.35	-111	—	clear
1600	22.44	350	5.82	0.124	0.0	0.31	13.33	-111	—	clear
1605	22.44	350	5.83	0.124	0.0	0.33	13.32	-111	—	clear
1610	22.44	350	5.83	0.124	0.0	0.34	13.31	-111	—	clear
1615	22.44	350	5.83	0.124	0.0	0.35	13.30	-111	—	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

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Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-129I-20090904
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-4-09								
Time: 0905								
Method: Redi-Flow pump	clear	4.46	0.051	12.16	0.0	0.45	36	—

PURGE DATA:

Date: 9-4-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 40'								
Static Water Level (WL): 22.51								
One Casing Volume(gal/L):								
Start Purge (hrs): 0805								
End Purge (hrs): 0905								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 5.75								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	1

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

Not enough volume for water quality parameters
Check box if not enough volume. [ ]

- pump set in well at ~ 39' (TOC)

Used pH paper instead of water quality meter
Check box if used pH paper. [ ]

- No odors or stains 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-129I
DATE: 9-4-09

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	SAL %	Comments
0800	22.51	–	–	–	–	–	–	–	–	Initial
0805	22.51	390	3.94	0.066	5.3	4.16	12.28	53	–	clear - start of purge
0810	22.51	390	4.35	0.059	1.9	1.83	12.14	46	–	clear
0815	22.51	375	4.44	0.054	0.4	1.26	12.11	37	–	clear
0820	22.51	375	4.43	0.052	0.0	1.11	12.12	40	–	clear
0825	22.51	375	4.44	0.052	0.0	0.97	12.15	42	–	clear
0830	22.51	375	4.44	0.051	0.0	0.74	12.15	43	–	clear
0835	22.51	375	4.46	0.053	0.0	0.72	12.13	44	–	clear
0840	22.51	375	4.49	0.051	0.0	0.52	12.16	39	–	clear
0845	22.51	375	4.49	0.051	0.0	0.49	12.18	40	–	clear
0850	22.51	375	4.47	0.051	0.0	0.49	12.18	41	–	clear
0855	22.51	375	4.46	0.050	0.0	0.47	12.17	41	–	clear
0900	22.51	375	4.46	0.051	0.0	0.46	12.17	39	–	clear
0905	22.51	375	4.46	0.051	0.0	0.45	12.16	36	–	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-129D-20090908
Sample Location: Southern Area
Sampled By: VAS

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9-8-09								
Time: 1030								
Method: Redi-Flow pump	clear	4.29	0.035	12.35	0.0	2.74	100	—

PURGE DATA:

Date: 9-8-09								
Method: Low Flow								
Monitor Reading (ppm): 0.0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material								
Type: 2 inch PVC								
Total Well Depth (TD): 80'								
Static Water Level (WL): 22.32								
One Casing Volume(gal/L):								
Start Purge (hrs): 0930								
End Purge (hrs): 1030								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.5								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml vials	3
MEE	HCL/4 DEG C	2- 40ml vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

Sample taken at discreet intervals using a hydropunch sampler unless otherwise noted. (see above)

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. [ ]

- Pump set in well at ~78' (TOC)
- No odors or stains 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: 9-8-09

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	SAL %	Comments
0925	22.32	—	—	—	—	—	—	—	—	Initial
0930	22.32	460	4.59	0.063	5.5	2.62	14.34	-43	-	clear - start of purge
0935	22.32	375	5.00	0.054	3.1	2.79	12.56	-12	-	clear
0940	22.32	375	4.69	0.043	1.2	2.32	12.33	40	-	clear
0945	22.32	375	4.54	0.039	0.0	2.44	12.29	57	-	clear
0950	22.32	375	4.39	0.034	0.0	2.50	12.28	72	-	clear
0955	22.32	375	4.28	0.034	0.0	2.55	12.30	79	-	clear
1000	22.32	375	4.25	0.035	0.0	2.61	12.29	83	-	clear
1005	22.32	375	4.28	0.035	0.0	2.64	12.31	86	-	clear
1010	22.32	375	4.28	0.035	0.0	2.70	12.32	91	-	clear
1015	22.32	375	4.29	0.035	0.0	2.73	12.31	93	-	clear
1020	22.32	375	4.29	0.035	0.0	2.74	12.32	95	-	clear
1025	22.32	375	4.29	0.035	0.0	2.76	12.34	98	-	clear
1030	22.32	375	4.29	0.035	0.0	2.74	12.35	100	-	clear - collect sample

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-130S-20090914
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/15/09								
Time: 1013								
Method: Low Flow	Clear	535	0.058	19.33	6.56	2.97	124	—

PURGE DATA:

Date: 9/15/09	
Method: Low Flow	
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2
Well Casing Diameter & Material Type: 2"	
Total Well Depth (TD):	
Static Water Level (WL): 13.61	
One Casing Volume(gal/L):	
Start Purge (hrs): 0930	
End Purge (hrs): 1013	
Total Purge Time (min): 43	
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	yes

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-13OS
DATE: 9/15/09

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	SAL %	Comments
0925	13.61									
0930	13.62	350	5.53	0.061	111	8.69	18.31	130	—	
0935	13.62	350	5.50	0.062	105.9	4.60	18.45	127	—	
0940	13.62	350	5.46	0.061	89.8	3.59	18.81	126	—	
0945	13.62	350	5.42	0.060	56.8	3.30	18.99	124	—	
0950	13.62	350	5.41	0.059	28.0	3.12	19.12	126	—	
0955	13.62	400	5.36	0.059	16.8	3.12	19.03	126	—	
1000	13.62	400	5.35	0.058	11.9	3.09	19.02	126	—	3.5 gal
1005	13.61	400	5.35	0.058	9.78	3.00	19.14	125	—	
1010	13.61	400	5.35	0.058	6.56	2.97	19.33	124	—	
1013	Collect	sample								
										5 gal

SIGNATURE(S): [signature]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-130I-20090915
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/15/09								
Time: 0857								
Method: Low Flow	clear	5.26	0.126	15.86	3.93	1.78	222	—

PURGE DATA:

Date: 9/15/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 50.09								
Static Water Level (WL): 13.37								
One Casing Volume(gal/L):								
Start Purge (hrs): 0810								
End Purge (hrs): 0859								
Total Purge Time (min): 49								
Total Vol. Purged (gal/L): 6 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	yes

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-130I
DATE: 9/15/09

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	SAL %	Comments
0800	13.57									
0810	13.39	400	5.39	0.130	793	2.25	15.33	217	—	light brown
0815	13.39	400	5.38	0.127	359	2.10	15.26	209	—	
0820	13.39	400	5.36	0.125	308	2.07	15.62	202	—	
0825	13.39	400	5.30	0.123	173	2.06	15.89	208	—	
0831	13.39	400	5.28	0.124	60.7	1.92	15.89	213	—	
0836	13.39	400	5.26	0.123	47.6	1.89	15.79	216	—	
0841	13.39	400	5.27	0.123	15.6	1.88	15.84	218	—	
0846	13.39	400	5.25	0.124	10.79	1.85	15.86	220	—	
0851	13.39	400	5.28	0.126	6.09	1.80	15.90	220	—	
0856	13.39	400	5.26	0.126	3.93	1.78	15.86	222	—	
0859	Collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-131S-20090914
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/14/09								
Time: 1218								
Method: Low Flow	brn tint	5.22	0.118	19.51	31.9	0.23	32	—

PURGE DATA:

Date: 9/14/09
Method: Low Flow
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 2"
Total Well Depth (TD): 16.37
Static Water Level (WL): 8.85
One Casing Volume(gal/L):
Start Purge (hrs): 1126
End Purge (hrs): 1218
Total Purge Time (min): 52
Total Vol. Purged (gal/L): 5 gal

SEE LOW FLOW PURGE DATA SHEET, Page 2

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	yes

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-131S-20090914
DATE: 9/14/09

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	SAL %	Comments
1125	8.85									
1130	8.86	400	5.14	0.104	40.1	1.85	18.97	57	—	
1131	8.86	400	5.13	0.104	43.4	0.52	19.40	54	—	
1136	8.86	400	5.14	0.108	45.0	0.40	19.48	50	—	brown tint
1141	8.86	400	5.16	0.113	42.5	0.35	19.45	46	—	1.5 gal
1146	8.86	400	5.22	0.116	39.5	0.31	19.61	40	—	
1151	8.86	400	5.22	0.116	37.2	0.29	19.95	39	—	
1156	8.86	350	5.21	0.116	35.9	0.26	20.02	38	—	
1200	8.86	350	5.19	0.117	35.3	0.26	19.61	38	—	low flow rate
1205	8.86	350	5.20	0.118	35.3	0.25	19.45	36	—	
1210	8.86	350	5.21	0.117	33.3	0.24	19.49	35	—	
1215	8.86	350	5.22	0.118	31.9	0.23	19.51	32	—	3.5 more gal
1218	Collect sample									5 gal total

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW BIT-20090914
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/14/09								
Time: 1058								
Method: Low Flow	Clear	5.81	0.229	15.97	15.6	0.32	86	—

PURGE DATA:

Date: 9/14/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 41.59								
Static Water Level (WL): 8.50								
One Casing Volume(gal/L) ~~41.5~~	JBB 9/14/09							
Start Purge (hrs): 0953								
End Purge (hrs): 1058								
Total Purge Time (min): 65								
Total Vol. Purged (gal/L): 8 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	YES

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):
—	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-131I
DATE: 9/14/09

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	SAL %	Comments
0945	8.50									
0953	8.51	350	5.82	0.191	59.4	3.63	15.21	60	–	
0958	8.51	350	5.77	0.199	56.0	0.77	15.55	86	–	
1003	8.51	350	5.91	0.235	62.6	0.55	15.66	88	–	
1007	8.51	350	5.96	0.243	47.1	0.48	15.62	84	–	
1012	8.52	350	5.92	0.238	35.6	0.44	15.52	83	–	
1017	8.52	350	5.89	0.238	29.4	0.42	15.51	83	–	
1022	8.52	350	5.87	0.233	25.0	0.40	15.59	86	–	
1027	8.52	350	5.82	0.225	21.2	0.39	15.58	89	–	
1033	8.52	350	5.80	0.223	20.0	0.36	15.32	89	–	3.5 gal
1036	8.51	350	5.79	0.223	18.4	0.35	15.41	88	–	readjust flow
1041	8.52	350	5.82	0.228	17.3	0.33	15.57	87	–	
1046	8.52	350	5.80	0.227	15.7	0.33	15.78	88	–	
1050	8.52	350	5.83	0.229	15.3	0.33	15.93	86	–	
1055	8.52	350	5.81	0.229	15.6	0.32	15.97	86	–	
1058	Collect sample									8 gal

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-13D-20090914
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/14/09								
Time: 0917								
Method: Low Flow	clear	6.02	0.292	15.17	29.2	0.39	-82	—

PURGE DATA:

Date: 9/14/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 7.95								
Static Water Level (WL): 7.89								
One Casing Volume(gal/L):								
Start Purge (hrs): 0817								
End Purge (hrs): 0917								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 7 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	yes

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
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-131D
DATE: 9/14/09

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	SAL %	Comments
0804	7.89									
0817	7.90	350	5.86	0.311	168	2.80	14.74	-45	—	
0824	7.90	350	5.96	0.301	168	1.64	14.55	-61	—	
0829	7.90	350	5.99	0.292	113	0.79	14.59	-73	—	
0835	7.90	350	6.01	0.318	82.6	0.58	14.63	-79	—	
0840	7.90	350	6.01	0.318	54.9	0.52	14.63	-79	—	
0845	7.91	350	6.00	0.310	53.5	0.48	14.61	-80	—	
0850	7.90	300	6.04	0.305	44.4	0.45	15.18	-83	—	slowed pump rate to
0856	7.90	300	6.04	0.303	51.4	0.45	15.13	-83	—	get turb down faster
0900	7.90	300	6.03	0.296	26.2	0.43	15.12	-83	—	
0905	7.90	300	6.02	0.294	27.1	0.42	15.11	-83	—	5 gal
0910	7.90	300	6.02	0.291	27.9	0.40	15.14	-82	—	
0915	7.90	300	6.02	0.292	29.2	0.39	15.17	-82	—	
0917	Collect sample									7 gal

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

Sample ID No.: SA-MW-1323-20090914
Sample Location:
Sampled By: JBB

[ ] 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 Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/14/09								
Time: 1643								
Method: Low Flow	clear	4.77	0.054	18.96	27.7	0.90	150	—

PURGE DATA:

Date: 9/14/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 16.93								
Static Water Level (WL): 6.16								
One Casing Volume(gal/L):								
Start Purge (hrs): 1536								
End Purge (hrs): 1643								
Total Purge Time (min): 67								
Total Vol. Purged (gal/L): 6.5 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	yes

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):
Yes	—	[signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-132S
DATE: 9/14/09

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	SAL %	Comments
1528	6.16									
1536	6.16	400	4.87	0.052	148	1.78	19.46	150	—	light brown
1540	6.17	400	4.87	0.054	153	1.34	19.50	169	—	shot gun shells and clay
1545	6.17	400	4.82	0.054	143	1.19	19.73	179	—	pigeons around cluster
1550	6.17	400	4.80	0.055	139	1.10	19.81	181	—	
1554	6.17	400	4.79	0.055	115	1.05	19.81	177	—	
1559	6.17	400	4.76	0.054	108.7	1.03	19.81	177	—	
1604	6.17	400	4.76	0.053	96.6	0.99	19.75	173	—	
1609	6.17	400	4.76	0.053	82.4	0.96	19.73	166	—	
1614	6.17	400	4.77	0.053	72.4	0.92	19.66	161	—	4gal
1620	6.17	400	4.81	0.054	61.2	0.95	18.99	158	—	
1625	6.17	400	4.76	0.054	48.5	0.93	19.26	159	—	flow pulsing
1630	6.17	400	4.78	0.055	44.4	0.89	18.76	146	—	
1635	6.17	400	4.78	0.054	33.6	0.91	18.94	149	—	
1640	6.17	400	4.77	0.054	27.7	0.90	18.96	150	—	6.5gal
1643	Collect sample w/ MS/MSD									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655
GROUNDWATER INVEST.

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SA-MW-132I-20090914
Sample Location:
Sampled By: JBB

C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 9/14/09								
Time: 1507								
Method: Low Flow	clear	5.77	0.114	18.07	28.6	0.25	4	—

PURGE DATA:

Date: 9/14/09								
Method: Low Flow								
Monitor Reading (ppm): 0	SEE LOW FLOW PURGE DATA SHEET, Page 2							
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 40.15								
Static Water Level (WL): 6.16								
One Casing Volume(gal/L):								
Start Purge (hrs): 1400								
End Purge (hrs): 1507								
Total Purge Time (min): 67								
Total Vol. Purged (gal/L): 6.5gal								

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	yes

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.: 1200
SA-DUP06-20090914

Signature(s):

40 15

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G01655

WELL ID.: SA-MW-132I
DATE: 9/14/09

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	SAL %	Comments
13.53	6.16									
1400	6.17	400	6.00	0.134	396	6.37	25.03	-8	—	
1405	6.17	300	6.02	0.121	294	1.10	24.24	-10	—	grayish tint
1410	6.17	300	5.88	0.111	245	0.54	22.01	13	—	
1415	6.17	350	5.79	0.107	195	0.41	20.69	21	—	
1420	6.18	350	5.79	0.111	139	0.37	20.70	18	—	
1425	6.18	350	5.80	0.114	78.7	0.34	19.88	14	—	
1430	6.18	350	5.78	0.113	66.8	0.33	19.46	14	—	
1435	6.18	350	5.79	0.115	57.4	0.32	18.91	11	—	
1440	6.18	350	5.78	0.114	54.0	0.30	18.63	10	—	
1445	6.18	350	5.77	0.113	52.5	0.34	18.48	9	—	
1450	6.18	350	5.76	0.113	40.0	0.28	18.39	8	—	4.5 g-1
1455	6.18	350	5.77	0.114	34.4	0.27	18.23	5	—	
1500	6.18	350	5.77	0.114	32.1	0.26	18.19	5	—	
1504	6.18	350	5.77	0.114	28.6	0.25	18.07	4	—	
1507	Collect sample W/ Dup 06									

SIGNATURE(S): [illegible]

PAGE 1 OF 1

APPENDIX D

GROUNDWATER LEVEL MEASUREMENT SHEETS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NWIRP Calverton
Project No.: CTO-160
Location: Southern Area / 6A
Personnel: Vince Shickora
Weather Conditions: Clear - Temp in mid 50°s F
Measuring Device: Herron Dipper-T
Tidally Influenced: Yes ___ No ✓
Remarks: —

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)* (TOC)	Water Level Indicator Reading (feet)* (TOC)	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
Staff Gauge #2	9/30/09	0709	Gauge reading →	1.6'	1.6'			
Staff Gauge #1	9/30/09	0713	Gauge Reading →	1.6'	1.6'			
SA-MW-132S	9/30/09	0715		16.90	6.16			
SA-MW-132I	9/30/09	0718		40.08	6.17			
SA-MW-131S	9/30/09	0726		16.31	8.92			
SA-MW-131I	9/30/09	0728		41.55	8.58			
SA-MW-131D	9/30/09	0730		71.85	7.98			
SA-PZ-118S	9/30/09	0739		18.48	5.21			
SA-PZ-118I	9/30/09	0741		61.24	5.75			
SA-PZ-123S	9/30/09	0744		19.07	9.36			
SA-PZ-123I1	9/30/09	0747		44.40	9.88			
SA-PZ-123I	9/30/09	0749		83.66	10.49			
SA-PZ-122S	9/30/09	0754		24.68	15.18			
SA-PZ-122I	9/30/09	0756		51.22	14.95			
SA-PZ-122D	9/30/09	0758		134.49	14.11			
SA-PZ-120S	9/30/09	0807		21.11	6.51			
SA-MW-126S	9/30/09	0815		17.57	5.40			
SA-MW-126I	9/30/09	0818		52.18	5.52			
SA-MW-126D	9/30/09	0820		86.87	7.25			
SA-MW-127S	9/30/09	0824		17.15	7.34			
SA-MW-127I	9/30/09	0826		48.20	7.55			
SA-MW-127D	9/30/09	0829		77.14	8.73			
SA-MW-128S	9/30/09	0834		18.81	9.47			
SA-MW-128I	9/30/09	0836		42.20	9.93			
SA-MW-128D	9/30/09	0839		70.24	9.85			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NWIRP Calverton
Project No.: CTO-160
Location: Southern Area / site 6A
Personnel: Vince Shickora
Weather Conditions: clear - Temp in mid 50s°F
Measuring Device: Herron Dipper T
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-129S	9/30/09	0844		31.32	22.50			
SA-MW-129I	9/30/09	0846		62.42	22.77			
SA-MW-129D	9/30/09	0848		92.01	22.69			
SA-MW-130S	9/30/09	0857		21.64	13.85			
SA-MW-130I	9/30/09	0859		48.16	13.64			
ET-MW03S	9/30/09	0906		19.48	11.07			
ET-MW02S	9/30/09	0908		19.00	10.22			
ET-MW01S	9/30/09	0911		19.12	10.69			
FC-MW05S	9/30/09	0916		17.74	10.61			4" Diameter
FC-MW05I	9/30/09	0918		59.37	9.93			4" Diameter
FC-MW07S	9/30/09	0923		17.01	10.61			4" Diameter
FC-MW07I	9/30/09	0925		60.07	10.57			
FC-MW04S	9/30/09	0930		15.10	7.50			4" Diameter
FC-MW04I	9/30/09	0932		51.38	7.41			4" Diameter
FC-MW08S	9/30/09	0938		14.49	6.27			4" Diameter
FC-MW01S	9/30/09	0944		16.74	9.11			4" Diameter
FC-MW01I	9/30/09	0946		57.51	8.92			4" Diameter
FC-MW06S	9/30/09	0952		20.98	12.60			4" Diameter

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NWIRP Calverton
Project No.: CTO-160
Location: Site 2 (Fire Training Area)
Personnel: Vince Shickora
Weather Conditions: Clear, warm - Temp 75°F
Measuring Device: Herron Dipper T
Tidally Influenced: Yes ___ No ✓
Remarks: —

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)* (TOC)	Water Level Indicator Reading (feet)* (TOC)	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
FT-MW08S	9/29/09	1328		16.08	7.98	-		
FT-MW08I	9/29/09	1331		35.61	8.08	-		
FT-MW05S	9/29/09	1336		19.71	11.51	-		
FT-MW05I	9/29/09	1340		59.90	11.92	-		
FT-MW06S	9/29/09	1344		28.83	20.80	-		
FT-MW06I	9/29/09	1347		75.71	21.81	-		
FT-MW07S	9/29/09	1342		36.44	29.28	-		
FT-MW03S	9/29/09	1349		32.54	25.33	-		
FT-MW01S	9/29/09	1355		30.10	22.70	-		
FT-MW01I	9/29/09	1358		79.70	22.40	-		
FT-MW02S	9/29/09	1403		NA*	14.72	14.69	←	Free product + Fuel like odor in well
FT-MW02I	9/29/09	1410		70.47	14.61	-		
FT-MW04S	9/29/09	1415		27.90	20.44	-		

* All measurements to the nearest 0.01 foot

* Did not collect due to Free Product in well

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:
Location: NWIRP Calverton
Weather Conditions: Mid 50's / Sunny
Tidally Influenced: Yes ___ No ___

Project No.: 112G02045
Personnel: EW/JB/VS 11/18/09
Measuring Device:
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	11-18-09			19.12	10.26'			
ET-MW02S				19	9.81'	~~Key~~	lock cut	
ET-MW03S				19.48	10.71'			
FC-MW01S				16.74	8.73'			
FC-MW01I				57.51	8.56'			
FC-MW04S				15.1	7.10'			
FC-MW04I				51.38	7.00'			
FC-MW05S				17.74	10.17'			
FC-MW05I				59.37	9.51'			
FC-MW06S				20.98	12.21			
FC-MW07S				17.01	10.21'			
FC-MW07I				60.07	10.13'			
FC-MW08S				14.49	5.89'			
SA-MW-126S				17.57	5.02			
SA-MW-126I				52.18	5.14			
SA-MW-126D				86.87	7.18			
SA-MW-127S				17.15	6.86'			
SA-MW-127I				48.2	7.08'			
SA-MW-127D				77.14	8.68'			
SA-MW-128S				18.81	9.12'			
SA-MW-128I				42.2	9.64'			
SA-MW-128D				70.24	9.81'			
SA-MW-129S				31.32	22.45'			
SA-MW-129I				62.42	22.69'			
SA-MW-129D				92.01	22.64'			

* All measurements to the nearest 0.01 foot

stream / culvert CONN AVE

5.16' Top of nail
5.11 concrete

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name:
Project No.: 112G02045
Location: NWIRP Calverton
Personnel: EW/JB/VS
Weather Conditions: Mid 50's/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
SA-MW-130S	11-18-09			21.64	13.63			
SA-MW-130I				48.16	13.43			
SA-MW-131S				16.31	8.58			
SA-MW-131I				41.55	8.24			
SA-MW-131D				71.85	7.80			
SA-MW-132S				16.90	5.82			
SA-MW-132I				40.08	5.84			
SA-PZ-118S				18.48	5.08			
SA-PZ-118I				61.24	~~8~~ 5.91			
SA-PZ-120S				21.11	6.39			
SA-PZ-122S				24.68	15.01			
SA-PZ-122I				51.22	14.77			
SA-PZ-122D				134.49	14.09			
SA-PZ-123S				19.07	9.19			
SA-PZ-123II				44.40	9.71			
SA-PZ-123I				83.66	10.32			
Staff gauge #1 WS PRSC					1.85			
Staff gauge #2 ES PRSC					1.87			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Calverton Bio. Study
Project No.: 112G02045
Location: NWIRP Calverton
Personnel: EW/JB/VS
Weather Conditions: Mid 50s / 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	11-18-09			30.1	23.10			
FT-MW01I				79.7	22.82			
FT-MW02S					14.82	~0.03'		product not measured with interface probe
FT-MW02I				70.47	14.86			
FT-MW03S				32.54	25.84			
FT-MW04S				27.9	20.6			
FT-MW05S				19.71	11.48			
FT-MW05I				59.90	11.90			
FT-MW06S				28.83	21.98			
FT-MW06I				75.71	21.97			
FT-MW07S				36.44	29.73			
FT-MW08S				16.08	7.94			
FT-MW08I				35.61	8.01			

* All measurements to the nearest 0.01 foot

APPENDIX E

CHAIN OF CUSTODY FORMS

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: Tetra Tech
Contact: David Brayack
Phone #: (757) 461-3824
Fax #: ( )
Address: 2700 Lakewright Drive 309
City: Norfolk
State: VA
Zip Code: 23502
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above): P. Hobrough
Address:
Sampler (Print / Sign): David Brayack
Copies To:

LAB USE ONLY
WORK ORDER #: SB7242
KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs	Filt. ☐Y ☒N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt ☐Y ☐
	CA-PRSC-01	12-16-08/0850	W	3	X										
	CA-PRSC-02-01	12-16-08/0910	W	6	X			Do MS/MSD							
	CA-RRSC-02-02	12-16-08/0905	W	3	X										
	CA-PRSC-02-03	12-16-08/0900	W	3	X										
	CA-RRSC-03	12-16-08/0855	W	3	X										
	CA-PRSC-Dup01	12-16 /	W	3	X			Duplicate							
	CA-PRSC-TB	12-16 /	W	3	X			Trip Blank							
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													
		/													

OMMENTS

16314 gallons

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	12-16-08/ 10-15-08	Fed Ex		12/17/08 1045	[illegible]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN

ORIGINAL

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 0670 | PAGE ___ OF ___

PROJECT NO: CTO-160	FACILITY: NWIRP Colverton	PROJECT MANAGER: Rob Sok	PHONE NUMBER: (757) 466-4904	LABORATORY NAME AND CONTACT: Compuchem
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: Vince Shickora	PHONE NUMBER: (610) 909-3264	ADDRESS: 501 Madison Ave.
		CARRIER/WAYBILL NUMBER: FED EX 8641 8687 4612		CITY, STATE: Cary, NC 27513

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl 1
TYPE OF ANALYSIS: VOCs (40 ml vials) / VOCs (2 ounce jar)

DATE YEAR 2009	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	VOCs (40 ml vials)	VOCs (2 ounce jar)				COMMENTS
3/24	0900	SA-SW-124				SW	G	3	3				0903179-01	
3/24	0910	SA-SD-124				SD	G	1		1			0903187-01	
3/24	0940	SA-SW-125				SW	G	3	3				0903179-02	
3/24	0945	SA-SD-125				SD	G	1		1			0903187-02	
3/24	1010	SA-SW-201				SW	G	3	3				0903179-03	
3/24	1015	SA-SD-201				SD	G	1		1			0903187-03	
3/24	1200	SA-SW-DUP01				SW	G	3	3				0903179-04	
3/24	1200	SA-SD-DUP01 *				SD	G	1		1			0903187-04	
3/24	1045	SA-SW-204				SW	G	9	9				0903179-05	Do MS/MSD
3/24	1050	SA-SD-204				SD	G	2		2			0903187-05	Do MS/MSD
3/25	0835	CA-PRSC-03				GW	G	3	3				0903188-01	
3/25	0845	CA-PRSC-04				GW	G	3	3				-02	
3/25	2400	CA-PRSC-DUP01				GW	G	3	3				-03	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	3-25-09	1845	1. RECEIVED BY [signature]	3-27-09	1000
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: Time sampled on label for SA-SD-DUP01 is 1205. Rec'd 2-202. For SA-SD-204. Rec'd @ 2.6°C [signature] 3-27-09

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0678 | PAGE ___ OF ___

PROJECT NO: CTO-160	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 466-4904	LABORATORY NAME AND CONTACT: Compuchem
SAMPLERS (SIGNATURE) [signature]		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Ave
		CARRIER/WAYBILL NUMBER FED EX 8641 8687 4612		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

DATE YEAR 2009	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)							COMMENTS
3/25	0858	CA-PRSC-02-03				GW	G	3	3				0903188-04			
3/25	0900	CA-PRSC-02-02				GW	G	3	3				-05			
3/25	0905	CA-PRSC-02-01				GW	G	3	3				-06			
3/25	0915	CA-PRSC-01				GW	G	9	9				-07			Do MS/MSD

1. RELINQUISHED BY [signature]	DATE 3-25-09	TIME 1845	1. RECEIVED BY [signature]	DATE 3-27-09	TIME 1000
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS Rec'd @ 2-6°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

№ 03886

67

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech
Address: Suite 309 5700 Lake Wright Dr.
City: Norfolk State: VA Zip: 23451
Project Contact: Rob Sok
Phone #: 757-466-4904
Sampler's Name: David Brayock

Project Information

Project Name: Calverton - PRSC
Sampling Location: PRSC
Turnaround time: 21 day
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 40mL

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	VOCs 40mL															
09062202-02	CA-PRSC-01-20090624	6-24	0900	GW	3	3						X															
09062202-01	CA-PRSC-0201-20090624	6-24	1045	GW	6	6						X		Do	MS/MSD												
-03	CA-PRSC-0202-20090624	6-24	1040	GW	3	3						X															
-04	CA-PRSC-0203-20090624	6-24	1035	GW	3	3						X															
-05	CA-PRSC-03-20090624	6-24	1015	GW	3	3						X															
-06	CA-PRSC-04-20090624	6-24	0845	GW	3	3						X															
-07	Trip Blank	6-24	—	GW	3	3						X															
-08	CA-PRSC-Dup20090624	6-24	—	GW	3	3						X															

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:	Date/Time: 6-26-09 / 1300	Received by: FedEx	Date/Time:
Relinquished by:	Date/Time:	Received by: Katie Manning	Date/Time: 6-27-09 1030
Subcontact? Y or N If yes, where?	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.6°C °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 0676

31

PROJECT NO: CTO-160	FACILITY: NWIRP Calverton	PROJECT MANAGER: Rob Sek	PHONE NUMBER: (757) 618-2104
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER: Vince Shickora	PHONE NUMBER: (610) 909-3264
		CARRIER/WAYBILL NUMBER: FED Ex	

LABORATORY NAME AND CONTACT: Compuchem - Cathy Dover
ADDRESS: 501 Madison Ave.
CITY, STATE: Cary, NC 27513

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

Rec'd @ 1.4°C
• 2 VOAs for FT-TB01-20090831 are written as FT-TB01-08312009 on their labels.

DATE YEAR 2009	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	VOCs	MEE					COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G					
PRESERVATIVE USED									HCl	HCl					
8/25	0800	FT-TB01-20090831				QC	G	2	2				0909027-01		Lab Prepared Trip Blank
8/31	1555	FT-MW-05I-20090831				GW	G	5	3	2			0909026-02		
8/31	1526	FT-MW-05S-20090831				GW	G	5	3	2				-03	
9/1	1630	FT-MW-02I-20090901				GW	G	15	9	6			0909026-01		Do MS/MSD
9/1	1500	FT-MW-02S-20090901				GW	G	5	3	2				-04	
9/1	1200	FT-DUP01-20090901	'DUP01'			GW	G	5	3	2				-05	
9/1	1220	FT-MW-07S-20090901 *				GW	G	3	3				0909027-02		
9/1	1050	FT-MW-06S-20090901				GW	G	3	3					-03	
9/1	0935	FT-MW-08S-20090901				GW	G	3	3					-04	
9/1	1053	FT-MW-06I-20090901				GW	G	3	3					-05	
9/1	0900	FT-MW-08I-20090901				GW	G	3	3					-06	
9/1	1350	FT-MW-01I-20090901				GW	G	3	3					-07	
9/1	1510	FT-MW-01S-20090901				GW	G	3	3					-08	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	9-2-09	1730	1. RECEIVED BY [signature]	9/3/09	0915
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * FT-MW-07S-20090901 does not have "S" on vials

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS 001

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TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0470 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01655	NWIRP CALVERTON	ROB SOK	757 466 4904	COMPUCHEM
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
SJ Conti		CONTI	412 551 2629	501 Madison Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB#		Cary, NC 27513

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

Rec'd @ 1.4°C (8)
• 2 VOAs for SA-DUP02-20090902 are not listed on COC.
• 3 VOA's for SA-DUP02-20090902 @ 1310 were rec'd but not listed on COC.

DATE YEAR 2009	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	TOC	VOCs 4 oz	MEE			COMMENTS
									CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G		
									PRESERVATIVE USED	4°C	HCl	HCl		
9/2	1010	SA-SB-131I-20090902041	131I	40	41	SO	G	1	1 ✓				0909023-01	
9/2	1015	SA-SB-131I-20090902042	131I	41	42	SO	G	1	1 ✓				↓ -02	
9/1	1658	FT-MW-03S-20090901				GW Hg	G	3		3 ✓			0909027-09	
9/2	0650	FT-RB01-20090902				QC	G	3		3 ✓			0909027-10	Rinsate Blank
9/2	1140	SA-PZ-123S-20090902				GW	G	5		3 ✓	2 ✓		0909026-06	
9/2	0935	FT-MW-04S-20090902*				GW	G	3		3 ✓			0909027-11	
9/2	1310	SA-PZ-123II-20090902				GW	G	5		3	2		did not receive any containers for these two samples / per lab SMC will arrive 9/4	
9/2	1435	SA-PZ-123I-20090902				GW	G	5		3	2			
9/2	1435	SA-PZ-122I-20090902				GW	G	3 ✓		3 ✓			0909027-12	
9/2	1310	SA-PZ-122S-20090902				GW	G	3		3 ✓			↓ -13	
9/2	1052	SA-PZ-118I-20090902				GW	G	5		3 ✓	2 ✓		0909026-07	
9/2	0908	SA-PZ-118S-20090902				GW	G	5		3 ✓	2 ✓		↓ -08	
9/2	1530	SA-FB01-20090902				QC	G	3		3 ✓			0909027-14	Field Blank

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY SJ Conti	9/2/09	1238	1. RECEIVED BY [signature]	9/2/09	1238
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY FED EX.	DATE	TIME
3. RELINQUISHED BY FED EX	DATE	TIME	3. RECEIVED BY [signature]	DATE 9/3/09 ~~9/15/09~~	TIME 0915

COMMENTS * FT-MW-04S-20090902 : no "S" on vials

JK 9/3/09

9/4 9/3/09

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0671 | PAGE 1 OF 2

PROJECT NO: CTO-160	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 618-2104	LABORATORY NAME AND CONTACT: Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Ave.
		CARRIER/WAYBILL NUMBER FED EX # 8671 2882 9362		CITY, STATE Cary, NC 27513

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

KM Rec'd @ 0.2°C

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl HCl

DATE YEAR 2009	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	VOCs	MEE					COMMENTS
9/2	1310	SA-OUP02-20090902				GW	G	5	3	2			09090026-09		Sample shipped on 9-2-09 to lab
9/3	0700	SA-TB02-20090903				QC	G	2	2				09090027-22		lab prepared Trip Blank
9/2	1310	SA-PZ-123I1-20090902				GW	G	5	3	2			09090026-10		
9/2	1435	SA-PZ-123I-20090902				GW	G	5	3	2			-11		
9/3	0945	SA-MW-127S-20090903				GW	G	5	3	2			-12		
9/3	1100	SA-MW-127I-20090903				GW	G	5	3	2			-13		
9/3	1230	SA-MW-127D-20090903				GW	G	5	3	2			-14		
9/3	1410	SA-MW-128S-20090903				GW	G	5	3	2			-15		
9/3	1615	SA-MW-129S-20090903				GW	G	9	9				09090027-15		Do MS/MSD
9/3	0909	SA-PZ-122D-20090903				GW	G	3	3				09090027-16		
9/3	1110	SA-MW-126D-20090903				GW	G	3	3				-17		
9/3	1243	SA-MW-126I-20090903				GW	G	3	3				-18		
9/3	1415	SA-MW-126S-20090903				GW	G	3	3				-19		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-4-09	1600	1. RECEIVED BY K.M. Manning	9-05-09	1100
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0672 | PAGE 2 OF 2

PROJECT NO: CTO-160	FACILITY: HWRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 618-2104	LABORATORY NAME AND CONTACT: ConDuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Ave.
		CARRIER/WAYBILL NUMBER FED EX # 8671 2882 9362		CITY, STATE Cary, NC 27513

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	TIME	SAMPLE ID (Rec'd. @ 0.2°C)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	VOCs	MEE			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G			
PRESERVATIVE USED									HCl	HCl			
9/3	1611	SA-MW-128D-20090903				GW	G	5	3	2			09090260-16
9/3	1200	SA-Dup03-20090903				GW	G	3	3				09090027-20
9/4	0905	SA-MW-129I-20090904				GW	G	3	3				-21
9/4	0923	SA-MW-128I-20090904				GW	G	3	3	2			09090260-17

1. RELINQUISHED BY	DATE 9-4-09	TIME 1600	1. RECEIVED BY K. Manning	DATE 9-05-09	TIME 1100
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-160	NWIRP Calverton	Rob Sok (757) 618-2104	Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
		Vince Shickora (610) 909-3264	501 Madison Ave.
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FED Ex # 8671 2882 9384	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 G
PRESERVATIVE USED: HCl HCl

DATE YEAR 2009	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	VOCs	MEE					COMMENTS
9/8	1030	SA-MW-129D-20090908	Aq.	G	3	3					0909058-02	
9/8	0810	SA-TB03-20090908	QC	G	3	3					-03	Lab supplied Trip Blank
9/8	1445	ET-MW-01$-20090908	Aq	G	3	3					-04	
9/8	1200	ET-MW-03$-20090908	Aq	G	3	3					-05	
9/8	1325	ET-MW-02$-20090908	Aq	G	3	3					-06	
9/8	1500	SA-RB02-20090908	Aq	G	3	3					-07	Rinsate Blank
9/9	1345	SA-PZ-120$-20090909	Aq	G	3	3					-08	
9/9	0850	FC-MW-07$-20090909	Aq	G	9	9					0909058-01	Do MS/MSD
9/9	1049	FC-MW-05I-20090909	Aq	G	5	3	2				0909060-18	
9/9	1223	FC-MW-05$-20090909	Aq	G	5	3	2				-19	
9/9	0900	FC-DUP04-20090909	Aq	G	3	3					0909058-09	
9/9	1453	SA-FB02-20090909	QC	G	3	3					-10	Field Blank
9/9	1520	FC-MW-06$-20090909	Aq	G	3	3					-11	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-9-09	1730	1. RECEIVED BY	9/10/09	0920
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: Rec'd @ 2.4°C ; 1-40mL for TB has pea size air bubble 9/10/09

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0471 | PAGE 2 OF 2

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PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01655	NWIRP CALVERTON	ROB SOK	757 466 4904	COMPUCHEM.
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
SJ Conti		S CONTI	412 551 2629	501 Madison Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX # 8671 2882 9384		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: 4°C

DATE YEAR 2009	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	TYPE OF ANALYSIS: TOC								COMMENTS
9/8	1000	SA-SB-132I-200909-3738	SA-MW 132I	37	38	SO	G	1	1			0909023	-03		GRAY		TR SAND CLAYEY SILT/SILTY CLAY
9/8	1340	SA-SB-132S-200909-1416	SA MW 132S	14	16	SO	G	1	1				-04		TAN BR		SILTY F/M SAND
9/9	1145	SA-SB-130I-200909-4446	SA MW 130I	44	46	SO	G	1	1			√	-05				

1. RELINQUISHED BY: SJ Conti	DATE 9/9/09	TIME 1510	1. RECEIVED BY: [illegible]	DATE 9-9-09	TIME 1515
2. RELINQUISHED BY:	DATE	TIME	2. RECEIVED BY: [illegible]	DATE 9/10/09	TIME 0920
3. RELINQUISHED BY:	DATE	TIME	3. RECEIVED BY:	DATE	TIME

COMMENTS: Rec'd @ 2.4°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 2

100

PROJECT NO: CTO-160	SITE NAME: NWIRP Calverton
PROJECT MANAGER AND PHONE NUMBER: Rob Sok (757) 618-2104	LABORATORY NAME AND CONTACT: Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)	FIELD OPERATIONS LEADER AND PHONE NUMBER: Vince Shickora (610) 909-3264
	ADDRESS: 501 Madison Ave
CARRIER/WAYBILL NUMBER: FED EX # 8671 2882 9351	CITY, STATE: Cary, NC 27513

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	TIME	SAMPLE ID (rec'd @ 2.4°C)	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	VOCs	MEE						COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G						
PRESERVATIVE USED						HCl	HCl						
9/10	0845	FC-MW-01S-20090910	Aq	G	3	3				0909058-	12		
9/10	0800	FC-TB04-20090910	Aq	G	3	3				-	16		Lab supplied Trip Blank
9/10	1005	FC-MW-01I-20090910	Aq	G	3	3				-	13		
9/10	1130	FC-MW-08S-20090910	Aq	G	3	3				-	14		
9/10	1200	FC-Dup05-20090910	Aq	G	3	3				-	15		
9/10	1330	FC-MW-04I-20090910	Aq	G	5	3	2			0909078-	01		
9/10	1455	FC-MW-04S-20090910	Aq	G	5	3	2			-	02		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-10-09	1645	1. RECEIVED BY	9-11-09	9:30
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0473 | PAGE 2 OF 2

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PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G01655	NWIRP CALVERTON	ROB SOK	757 466 4904	COMPUCHEM
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
SJ Conti		S CONTI	412 551 2629	501 Madison Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX 8671 2882 9351		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: 4°C

DATE YEAR 2009	TIME	SAMPLE ID (rec'd @ 2.4°C)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TOC								COMMENTS
9/10	0830	SA-SB-130S-200909-19211	SA MW 130S	19	21	SO	G	1	1								0909023-06
9/10	1145	FC-SB-07I-200909-5456	FC MW 07I	54	56	SO	G	1	1								1 -07

1. RELINQUISHED BY: SJ Conti	DATE 9/10/09	TIME 1500	1. RECEIVED BY: [signature]	DATE 9-10-09	TIME 1510
2. RELINQUISHED BY:	DATE	TIME	2. RECEIVED BY: Jennifer Doer	DATE 9-11-09	TIME 9:30
3. RELINQUISHED BY:	DATE	TIME	3. RECEIVED BY:	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

temp. wells extended list

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0475 | PAGE 1 OF 3

PROJECT NO: CTO-160	FACILITY: NWIRP Calverton	PROJECT MANAGER Rob Sok	PHONE NUMBER (757) 466-4904
LABORATORY NAME AND CONTACT: Compuchem - Cathy Dover			
SAMPLERS (SIGNATURE)	FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER (610) 909-3264	ADDRESS 501 Madison Ave.
	CARRIER/WAYBILL NUMBER FED Ex #8671 2882 9270		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: VOCs

DATE YEAR 2009	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	VOCs								COMMENTS
9/14	0840	SA-TB05-20090914				QC	G	3	3						0909125-12		Lab supplied Trip Blank
9/14	0940	SA-TW-312-0712-20090914				GW	G	3	3						-01		
9/14	1132	SA-TW-312-2025-20090914				GW	G	3	3						-02		
9/14	1520	SA-TW-312-4146-20090914				GW	G	3	3						-03		
9/15	0645	SA-RB03-20090915				QC	G	3	3						-10		Rinsate Blank
9/15	1045	SA-TW-314-0712-20090915				GW	G	3	3						-04		
9/15	1202	SA-TW-314-2025-20090915				GW	G	3	3						-05		
9/15	1425	SA-TW-314-3944-20090915				GW	G	3	3						-06		
9/16	1058	SA-TW-315-0813-20090916				GW	G	3	3						-07		
9/16	1155	SA-TW-315-2025-20090916				GW	G	3	3						-08		
9/16	1436	** SA-TW-315-4045-20090916				GW	G	3	3						-09		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-16-09	1700	1. RECEIVED BY	9-17-09	1030
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: Rec'd @ 2.6°C. rec'd 3-40mL for SA-FB03-20090915 (9/15/09/1525) not listed on COC. 0909125-11 JK 9/17/09

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TINUS-001 4/02R 9/23

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0477 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-160	NWIRP Calverton	Rob Sek	(757) 466-4904	Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		Vince Shickora	(610) 909-3264	501 Madison Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED Ex # 8671 2882 9270		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

DATE YEAR 2009	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	TYPE OF ANALYSIS: VOCs								COMMENTS
9/16	0810	CA-PRSC-02-01-20090916				GW	G	3	3								0909124-02
9/16	0815	CA-PRSC-02-02-20090916				GW	G	3	3								-03
9/16	0820	CA-PRSC-02-03-20090916				GW	G	3	3								-04
9/16	0840	CA-PRSC-03-20090916				GW	G	3	3								-05
9/16	0855	CA-PRSC-04-20090916				GW	G	3	3								-06
9/16	1200	CA-PRSC-DUP01-20090916				GW	G	3	3								-07
9/16	0920	CA-PRSC-01-20090916				GW	G	9	9								-01 No MS/MSD

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	9-16-09	1700	1. RECEIVED BY [signature]	9-17-09	1030 ~~1000~~
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS Rec'd @ 2.6°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0476 | PAGE 3 OF 3

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PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-166	DWZRP Calverton	Rob Sok	(757) 466-4904	Compuchem - Cathy Dower
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Vince Shickora	(610) 909-3264	501 Madison Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED Ex # 8671 2882 9270		Cary, NC 27513

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2009	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	VOCs	MEE	BTEX 8260B	TPH-GRO	TPH-DRO / PCBs			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)									G	G		G	G	G		
PRESERVATIVE USED									HCl	HCl	Sodium Thio Sulfate	-	-			
9/15	1228	FC-MW-07I-20090915				GW	G	3	3							0909078-11
9/15	0857*	SA-MW-130I-20090915				GW	G	5	3	2						-09
9/15	1013	SA-MW-130S-20090915				GW	G	5	3	2						-10
9/14	1643	SA-MW-132S-20090914				GW	G	11	9	2						Do MS/MSD -03
9/14	1507	SA-MW-132I-20090914				GW	G	5	3	2						-04
9/14	1200	SA-DUP06-20090914				GW	G	3	3							-05
9/14	1218	SA-MW-131S-20090914				GW	G	5	3	2						-06
9/14	0917	SA-MW-131D-20090914				GW	G	5	3	2						-07
9/14	1058	SA-MW-131I-20090914				GW	G	5	3	2						-08
9/16	1430	FC-UT01-20090916				SO	G	5			3	1	1			Quick Turnaround on analysis 0909127-01

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	9-16-09	1700		9-17-09	1030 ~~1000~~
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS
* Rec'd @ 2.6°C; time on label for 130I is ~~0857~~ 0859.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0483 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-160	NWIRP Calverton	Rob Sok	(757) 466-4904	Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Vince Shickora	(610) 909-3264	501 Madison Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX # 8671 2882 9763		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 G
PRESERVATIVE USED: 3-40 ml HCl; None

DATE YEAR 2009	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	TYPE OF ANALYSIS: VOCs	VOCs (4-ounce Jar)				COMMENTS
9/17	0644	SA-TB06-20090917				QC	G	3	3				0909125-13	Lab supplied Trip Blank
9/17	1025	SA-TW-316-0712-20090917				GW	G	3	3				0909125-14	
9/17	1150	SA-TW-316-2025-20090917				GW	G	3	3				0909125-15	
9/17	1424	SA-TW-316-3237-20090917				GW	G	3	3				0909125-16	
9/17	1207	SA-SD-125-20090917				SD	G	1		1			0909145-02	
9/17	1208	SA-SW-125-20090917				SW	G	3	3				0909144-02	
9/17	1215	SA-PZ-125-20090917				GW	G	3	3				0909144-03	
9/17	1240	SA-SD-124-20090917				SD	G	1		1			0909145-03	
9/17	1245	SA-SW-124-20090917				SW	G	3	3				0909144-04	
9/17	1252	SA-PZ-124-20090917				GW	G	3	3				0909144-05	
9/17	1315	SA-SW-201-20090917				SW	G	3	3				0909144-06	
9/17	1322	SA-SD-201-20090917				SD	G	1		1			0909145-04	
9/17	1200	SA-SW-DUP01-20090917				SW	G	3	3				0909144-07	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-18-09	1600	1. RECEIVED BY Jennifer Dover	9-19-09	1045
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS rec'd @ 2.4°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

83

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0482 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-160	NWTRP Columbia	Rob Sok	(757) 466-4904	Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		Vince Shickora	(610) 909-3264	501 Madison Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED Ex # 8671 2882 9763		Cary, NC 27513

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE YEAR 2009	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	TYPE OF ANALYSIS: VOCs 3-40 ml (CONTAINER TYPE PLASTIC (P) or GLASS (G): G; PRESERVATIVE USED: HCl)	VOCs 4 oz (CONTAINER TYPE PLASTIC (P) or GLASS (G): G; PRESERVATIVE USED: None)						COMMENTS
9/17	1200	SA-SD-06P01-20090917				SD	G	1		1			09091145-05			
9/17	1335	SA-SW-204-20090917				SW	G	9	9				09091144-01			Do MS/MSD
9/17	1340	SA-SD-204-20090917				SD	G	3		3			09091145-01			Do MS/MSD
9/18	1032	SA-TW-317-1015-20090918				GW	G	3	3	X (VAS)			09091125-17			
9/18	1133	SA-TW-317-2025-20090918				GW	G	3	3	X (VAS)			09091125-18			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	9-18-09	1600	1. RECEIVED BY Jennifer Dover	9-19-09	1045
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS rec'd @ 2.4°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0481 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-160	NWIRP Calverton	Rob Sok	(757) 466-4904	Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Vince Shickora	(610) 909-3264	501 Madison Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX # 8671 2882 9774		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: VOCs

DATE YEAR 2009	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	VOCs						COMMENTS
9/21	0742	SA-TB07-20090921				QC	G	3	3				0909208	-01	Lab supplied Trip Blank
9/21	1052	SA-TW-317-39.5-44.5-20090921				GW	G	3	3				0909125	-20	
9/21	1245	SA-TW-RB04-20090921				QC	G	3	3				0909208	-02	Rinsate Blank
9/22	0905	SA-TW-313-0914-20090922				GW	G	9	9				0909125	-19	No MS/MSD
9/22	1014	SA-TW-313-2025-20090922				GW	G	3	3					-21	
9/22	1335	SA-TW-313-4247-20090922				GW	G	3	3					-22	
9/22	1200	SA-TW-DUP07-20090922				GW	G	3	3				0909208	-03	
9/23	1050	SA-TW-311-1015-20090923				GW	G	3	3					-04	
9/23	1802	SA-TW-311-2328-20090923				GW	G	3	3					-05	
9/24	0850	SA-TW-311-4651-20090924				GW	G	3	3					-06	
9/24	1025	SA-FB04-20090924				QC	G	3	3					-07	Field Blank
9/24	1155	SA-TW-310-1015-20090924				GW	G	3	3					-08	
9/24	1334	SA-TW-310-2429-20090924				GW	G	3	3					-09	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	9-25-09	1200	1. RECEIVED BY	9-26-09	1130
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: rec'd @ 0.2°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 0480 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO-160	NWIRP Colverton	Rob Sok	(757) 466-4904	Compuchem - Cathy Dover
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		Vince Shickora	(610) 909-3264	501 Madison Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX # 8671 2882 9774		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: VOCs

DATE YEAR 2009	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	VOCs								COMMENTS
9/25	0847	SA-TW-310-4853-20090925				GW	G	3	3				09092 08-10				

1. RELINQUISHED BY [signature]	DATE 9-25-09	TIME 1200	1. RECEIVED BY Jan Purdie	DATE 9.26.09	TIME 11:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: rec'd @ 0.2°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 2613 | PAGE 1 OF 1

PROJECT NO:	FACILITY: NWIRP Calverton	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER		CITY, STATE

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

DATE YEAR 2009	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							COMMENTS
11/18	0755	CA-PRSC-04-20091118				GW	G	3	3					0911130-01		
11/18	0816	CA-PRSC-03-20091118				GW	G	3	3					-02		
11/18	0836	CA-PRSC-02-01-20091118				GW	G	3	3					-03		
11/18	0840	CA-PRSC-02-02-20091118				GW	G	3	3					-04		
11/18	0844	CA-PRSC-02-03-20091118				GW	G	3	3					-05		
11/18	1200	CA-PRSC-DUP01-20091118				GW	G	3	3					-06		
11/18	0903	CA-PRSC-01-20091118				GW	G	9	9*					-07		Do MS/MSD
11/18	~~0900~~ prep	CA-TB01-111809				AQ		2	2					~~-08~~		Trip Blank
														11/20/09		

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	11-18-09	1100		11/19/09	0900
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: Same TB as COC #21123 rec'd @ 5.9°C

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

APPENDIX F

SURVEY DATA

Appendix C
Survey Coordinates for Site 6a, 10b, and Southern Area
NWIRP Calverton, New York

Well ID	Area	correct	NORTHING	EASTING	ELEVATION	NOTES
ET-MW01S	ENGINE TEST HOUSE		272723.82	1319219.58	47.6	vertical datum NAVD 1988
ET-MW01S	ENGINE TEST HOUSE	yes	272723.40	1319219.53	47.53	**BANC3 NAVD88 NAD83**
MW01S Ground	ENGINE TEST HOUSE	yes	272722.82	1319219.42	45.17	**BANC3 NAVD88 NAD83**
ET-MW02S	ENGINE TEST HOUSE		272738.87	1319326.49	47.03	vertical datum NAVD 1988
ET-MW02S	ENGINE TEST HOUSE	yes	272738.48	1319326.64	46.95	**BANC3 NAVD88 NAD83**
MW02S Ground	ENGINE TEST HOUSE	yes	272738.93	1319326.12	44.52	**BANC3 NAVD88 NAD83**
ET-MW03S	ENGINE TEST HOUSE		272862.30	1319401.19	47.86	vertical datum NAVD 1988
ET-MW03S	ENGINE TEST HOUSE	yes	272861.96	1319402.28	47.81	**BANC3 NAVD88 NAD83**
MW03S Ground	ENGINE TEST HOUSE	yes	272861.46	1319402.05	45.24	**BANC3 NAVD88 NAD83**
FCMW01S	FUEL CALIBRATION		273844.47	1318444.64		vertical datum NAD 1929
FCMW02I	FUEL CALIBRATION		273393.85	1318372.63		vertical datum NAD 1929
FC-MW-02-S	FUEL CALIBRATION		273393.11	1318384.82		vertical datum NAD 1929
FCMW03S	FUEL CALIBRATION		273393.84	1318566.74		vertical datum NAD 1929
FCMW04I	FUEL CALIBRATION		273427.03	1318714.01		vertical datum NAD 1929
FCMW04S	FUEL CALIBRATION		273411.44	1318715.85		vertical datum NAD 1929
FCMW05I	FUEL CALIBRATION		272995.36	1318883.39		vertical datum NAD 1929
FCMW05I	FUEL CALIBRATION	yes	272994.87	1318882.80	47.35	**BANC3 NAVD88 NAD83**
FCMW05I Ground	FUEL CALIBRATION	yes	272995.25	1318882.57	45.43	**BANC3 NAVD88 NAD83**
FCMW05S	FUEL CALIBRATION		272990.57	1318873.02		vertical datum NAD 1929
FCMW05S	FUEL CALIBRATION	yes	272990.18	1318872.45	48.03	**BANC3 NAVD88 NAD83**
FCMW05S Ground	FUEL CALIBRATION	yes	272990.46	1318873.03	45.5	**BANC3 NAVD88 NAD83**
FCMW06S	FUEL CALIBRATION		273038.44	1318373.96		vertical datum NAD 1929
FCMW06S	FUEL CALIBRATION	yes	273038.08	1318373.52	50.66	**BANC3 NAVD88 NAD83**
FCMW06S Ground	FUEL CALIBRATION	yes	273038.14	1318373.01	48.48	**BANC3 NAVD88 NAD83**
FCMW07S	FUEL CALIBRATION		273262.39	1318793.91	48.38	vertical datum NAVD 1988
FCMW07S	FUEL CALIBRATION	yes	273262.56	1318793.87	48.34	**BANC3 NAVD88 NAD83**

Appendix C
Survey Coordinates for Site 6a, 10b, and Southern Area
NWIRP Calverton, New York

Well ID	Area	correct	NORTHING	EASTING	ELEVATION	NOTES
FCMW07S Ground	FUEL CALIBRATION	yes	273261.80	1318794.66	45.89	**BANC3 NAVD88 NAD83**
FCMW07I	FUEL CALIBRATION	yes	273255.82	1318800.45	48.25	**BANC3 NAVD88 NAD83**
FCMW07I Ground	FUEL CALIBRATION	yes	273255.31	1318800.60	46.13	**BANC3 NAVD88 NAD83**
SA-MW126D	SOUTHERN AREA	yes	271465.64	1319704.63	40.04	**BANC3 NAVD88 NAD83**
SA-MW126D Ground	SOUTHERN AREA	yes	271465.35	1319704.53	37.37	**BANC3 NAVD88 NAD83**
SA-MW126I	SOUTHERN AREA		271465.21	1319714.73	40.05	vertical datum NAVD 1988
SA-MW126I	SOUTHERN AREA	yes	271464.64	1319714.76	39.97	**BANC3 NAVD88 NAD83**
SA-MW126I Ground	SOUTHERN AREA	yes	271464.25	1319714.38	37.52	**BANC3 NAVD88 NAD83**
SA-MW126S	SOUTHERN AREA		271463.06	1319725.00	39.9	vertical datum NAVD 1988
SA-MW126S	SOUTHERN AREA	yes	271462.44	1319724.78	39.79	**BANC3 NAVD88 NAD83**
SA-MW126S Ground	SOUTHERN AREA	yes	271462.07	1319724.52	37.36	**BANC3 NAVD88 NAD83**
SA-MW127I	SOUTHERN AREA		271425.84	1320597.18	40.84	vertical datum NAVD 1988
SA-MW127I	SOUTHERN AREA	yes	271425.64	1320597.04	40.79	**BANC3 NAVD88 NAD83**
SA-MW127I Ground	SOUTHERN AREA	yes	271424.55	1320597.10	38.43	**BANC3 NAVD88 NAD83**
SA-MW127S	SOUTHERN AREA		271426.28	1320603.80	40.62	vertical datum NAVD 1988
SA-MW127S	SOUTHERN AREA	yes	271425.92	1320603.58	40.57	**BANC3 NAVD88 NAD83**
SA-MW127S Ground	SOUTHERN AREA	yes	271425.25	1320603.61	38.26	**BANC3 NAVD88 NAD83**
SA-MW127D	SOUTHERN AREA	yes	271424.73	1320587.30	40.57	**BANC3 NAVD88 NAD83**
SA-MW127D Gound	SOUTHERN AREA	yes	271424.03	1320587.33	38.46	**BANC3 NAVD88 NAD83**
SA-MW128D	SOUTHERN AREA		271412.70	1321990.73	40.74	vertical datum NAVD 1988
SA-MW128D	SOUTHERN AREA	yes	271412.20	1321990.43	40.64	**BANC3 NAVD88 NAD83**
SA-MW128D Ground	SOUTHERN AREA	yes	271411.54	1321990.99	38.34	**BANC3 NAVD88 NAD83**
SA-MW128I	SOUTHERN AREA		271416.43	1321999.47	41	vertical datum NAVD 1988
SA-MW128I	SOUTHERN AREA	yes	271415.81	1321999.32	40.96	**BANC3 NAVD88 NAD83**
SA-MW128I Ground	SOUTHERN AREA	yes	271415.58	1322000.03	38.62	**BANC3 NAVD88 NAD83**
SA-MW128S	SOUTHERN AREA		271422.53	1322008.51	40.53	vertical datum NAVD 1988

Appendix C
Survey Coordinates for Site 6a, 10b, and Southern Area
NWIRP Calverton, New York

Well ID	Area	correct	NORTHING	EASTING	ELEVATION	NOTES
SA-MW128S	SOUTHERN AREA	yes	271421.75	1322008.46	40.54	**BANC3 NAVD88 NAD83**
SA-MW128S Ground	SOUTHERN AREA	yes	271421.59	1322008.63	38.19	**BANC3 NAVD88 NAD83**
SA-MW129D	SOUTHERN AREA		271402.34	1322941.91	52.26	vertical datum NAVD 1988
SA-MW-129I	SOUTHERN AREA		271402.88	1322934.81	52.23	vertical datum NAVD 1988
SA-MW-129S	SOUTHERN AREA		271403.54	1322926.20	51.99	vertical datum NAVD 1988
SA-PZ-118I	SOUTHERN AREA	yes	269844.39	1323195.34	31.68	**BANC3 NAVD88 NAD83**
SA-PZ-118I Ground	SOUTHERN AREA	yes	269844.26	1323194.77	29.22	**BANC3 NAVD88 NAD83**
SA-PZ-118S	SOUTHERN AREA	yes	269855.83	1323191.47	31.13	**BANC3 NAVD88 NAD83**
SA-PZ-118S Ground	SOUTHERN AREA	yes	269855.49	1323190.91	29.23	**BANC3 NAVD88 NAD83**
SA-PZ-120S	SOUTHERN AREA		271173.27	1324445.65	32.34	vertical datum NAVD 1988
SA-PZ-122D	SOUTHERN AREA		270923.08	1322939.23	41.35	vertical datum NAVD 1988
SA-PZ-122D	SOUTHERN AREA	yes	270922.33	1322938.83	43.47	**BANC3 NAVD88 NAD83**
SA-PZ-122D Ground	SOUTHERN AREA	yes	270921.96	1322938.49	41.31	**BANC3 NAVD88 NAD83**
SA-PZ-122I	SOUTHERN AREA		270917.45	1322940.98	43.58	vertical datum NAVD 1988
SA-PZ-122I	SOUTHERN AREA	yes	270916.49	1322940.79	43.57	**BANC3 NAVD88 NAD83**
SA-PZ-122I Ground	SOUTHERN AREA	yes	270916.33	1322940.20	41.20	**BANC3 NAVD88 NAD83**
SA-PZ-122S	SOUTHERN AREA		270910.39	1322943.37	43.8	vertical datum NAVD 1988
SA-PZ-122S	SOUTHERN AREA	yes	270909.60	1322942.98	43.75	**BANC3 NAVD88 NAD83**
SA-PZ-122S Ground	SOUTHERN AREA	yes	270909.37	1322942.50	41.11	**BANC3 NAVD88 NAD83**
SA-PZ-123I1	SOUTHERN AREA		270457.45	1323048.54	37.58	vertical datum NAVD 1988
SA-PZ-123I1	SOUTHERN AREA	yes	270456.37	1323048.10	37.51	**BANC3 NAVD88 NAD83**
SA-PZ-123I1 Ground	SOUTHERN AREA	yes	270456.51	1323047.84	34.75	**BANC3 NAVD88 NAD83**
SA-PZ-123I	SOUTHERN AREA		270467.98	1323045.79	38.09	vertical datum NAVD 1988
SA-PZ-123I	SOUTHERN AREA	yes	270467.03	1323045.42	38.02	**BANC3 NAVD88 NAD83**
SA-PZ-123I Ground	SOUTHERN AREA	yes	270467.05	1323045.02	35.16	**BANC3 NAVD88 NAD83**
SA-PZ-123S	SOUTHERN AREA		270448.04	1323051.40	37.04	vertical datum NAVD 1988

Appendix C
Survey Coordinates for Site 6a, 10b, and Southern Area
NWIRP Calverton, New York

Well ID	Area	correct	NORTHING	EASTING	ELEVATION	NOTES
SA-PZ-123S	SOUTHERN AREA	yes	270447.24	1323051.08	36.96	**BANC3 NAVD88 NAD83**
SA-PZ-123S Ground	SOUTHERN AREA	yes	270447.21	1323050.77	34.47	**BANC3 NAVD88 NAD83**
SA-MW130I	ENGINE TEST HOUSE	yes	272488.57	1320364.53	48.33	**BANC3 NAVD88 NAD83**
SA-MW130I Ground	ENGINE TEST HOUSE	yes	272488.28	1320364.99	45.91	**BANC3 NAVD88 NAD83**
SA-MW130S	ENGINE TEST HOUSE	yes	272483.42	1320364.01	48.60	**BANC3 NAVD88 NAD83**
SA-MW130S Ground	ENGINE TEST HOUSE	yes	272483.18	1320364.33	45.83	**BANC3 NAVD88 NAD83**
SA-MW131I	SOUTHERN AREA	yes	270697.54	1322255.02	38.24	**BANC3 NAVD88 NAD83**
SA-MW131I Ground	SOUTHERN AREA	yes	270697.17	1322254.88	36.03	**BANC3 NAVD88 NAD83**
SA-MW131S	SOUTHERN AREA	yes	270695.05	1322258.41	38.59	**BANC3 NAVD88 NAD83**
SA-MW131S Ground	SOUTHERN AREA	yes	270694.81	1322258.20	36.20	**BANC3 NAVD88 NAD83**
SA-MW131D	SOUTHERN AREA	yes	270700.55	1322251.32	37.82	**BANC3 NAVD88 NAD83**
SA-MW131D Ground	SOUTHERN AREA	yes	270700.14	1322251.15	35.84	**BANC3 NAVD88 NAD83**
SA-MW132I	SOUTHERN AREA	yes	269953.37	1321512.22	36.76	**BANC3 NAVD88 NAD83**
SA-MW132I Ground	SOUTHERN AREA	yes	269952.99	1321512.49	34.02	**BANC3 NAVD88 NAD83**
SA-MW132S	SOUTHERN AREA	yes	269955.75	1321516.74	36.75	**BANC3 NAVD88 NAD83**
SA-MW132S Ground	SOUTHERN AREA	yes	269955.51	1321516.84	34.09	**BANC3 NAVD88 NAD83**
Ws Staff Gg 1 WS PRSC	SOUTHERN AREA	yes	269847.50	1321370.55	30.83	**BANC3 NAVD88 NAD83**
Tp Staff Gg 1 WS PRSC	SOUTHERN AREA	yes	269847.36	1321370.57	32.37	**BANC3 NAVD88 NAD83**
Ws Staff Gg 2 ES PRSC	SOUTHERN AREA	yes	269926.66	1322533.48	30.77	**BANC3 NAVD88 NAD83**
Tp Staff Gg 2 ES PRSC	SOUTHERN AREA	yes	269926.97	1322534.70	32.41	**BANC3 NAVD88 NAD83**
BM ES Conn Ave HDWL	SOUTHERN AREA	yes	269793.26	1323249.60	30.44	**BANC3 NAVD88 NAD83**

Elevations are to the top of inner casing.
Coordinates in NY State Plane, Long Island Zone, NAD 83, US Survey feet; Elevation NAVD88
Tied to NGS Monument, "Wauwepex" KU0295, First Order Horiz, Second Order, Class 0, Vertical
276941.48 1309567.83 78.15 79.13 NGVD 29

APPENDIX G

BIODEGRADATION STUDY GROUNDWATER SAMPLE LOG SHEETS, LOW FLOW PURGE DATA SHEETS, FIELD ANALYTICAL LOG SHEETS, CHAIN OF CUSTODIES, AND ANALYTICAL RESULTS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FC-MW-07S-20091118
Sample Location:
Sampled By: JBB
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11-18-09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1615								
Method: Low Flow	clear	6.07	0.080	16.94	3.1	0.00	0.0	-91

PURGE DATA:

Date: 11-18-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 4"								
Total Well Depth (TD): 17.01								
Static Water Level (WL): 10.20								
One Casing Volume(gal/L):								
Start Purge (hrs): 1506								
End Purge (hrs): 1615								
Total Purge Time (min): 69								
Total Vol. Purged (gal/L): 7 gal								

See Low Flow Purge Sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40mL HCl vial	3
NO_2/NO_3/SO_4/Chl	—	125mL Poly	1
Sulfide	Zn Acetate ~~16 NaOH~~	500mL Zn Acetate	1
MEE	HCl	40 mL vial	2
TOC	H_2SO_4	40 mL vial	2
Ammonia	H_2SO_4	250 mL poly	1
Total Fe and MN	HNO_3	250 mL	1
DHB and DHC	—	Filter	1

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: SA-MW105D-20091118

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G02045
WELL ID.: FC-MW-07S
DATE: 11-18-09

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
1503	Start purge									
1506	10.20	320	6.01	0.074	55	6.05	17.40	96	0.0	
1511	10.20	300	6.01	0.075	21	1.12	16.94	92	0.0	
1515	10.20	320	6.04	0.077	11	0.56	16.85	51	0.0	
1520	10.20	320	6.04	0.078	10	0.39	16.80	23	0.0	
1525	10.20	320	6.05	0.079	10	0.28	16.85	-9	0.0	
1530	10.20	320	6.06	0.079	11	0.15	16.83	-29	0.0	
1535	10.20	320	6.06	0.079	8.6	0.11	16.83	-40	0.0	
1540	10.20	320	6.06	0.082	7.7	0.04	16.87	-55	0.0	
1545	10.20	320	6.06	0.081	6.2	0.01	16.91	-63	0.0	
1550	10.20	320	6.07	0.080	5.1	0.00	16.94	-76	0.0	
1555	10.20	320	6.07	0.081	5.1	0.00	16.95	-78	0.0	5 gal
1600	10.20	320	6.07	0.082	4.3	0.00	16.93	-86	0.0	
1605	10.20	320	6.07	0.082	3.4	0.00	16.92	-87	0.0	
1610	10.20	320	6.07	0.080	3.1	0.00	16.94	-91	0.0	
1615	Start Sampling									

SIGNATURE(S): Jeal Birkett

PAGE 1 **OF** 1

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JB/EW
Field Analyst: JB/EW
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: FC-MW75-20091118
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 11-18-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP (Eh)
Time: 1615	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(+/- mv)
Method: Low Flow	clear	6.07	0.080	16.94	3.1	0.00	0.0	-91

SAMPLE COLLECTION/ANALYSIS INFORMATION:

ORP (Eh) (+/- mv)

Electrode Make & Model:

Reference Electrode (circle one): Silver-Silver Chloride / Calomel / Hydrogen

Dissolved Oxygen:

Equipment: Chemetrics Test Kit

Concentration: 1 ppm

Range Used:	Range	Method	Concentration ppm
☒	0 to 1 ppm	K-7510	1
☒	1 to 12 ppm	K-7512	1

Analysis Time: 1617

Equipment: HACH Digital Titrator OX-DT

Analysis Time:

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
	x 0.01	=	mg/L
	x 0.02	=	mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Concentration: 30 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-1910	30
☐	100 to 1000 ppm	K-1920	
☐	250 to 2500 ppm	K-1925	

Analysis Time: 1625

Equipment: HACH Digital Titrator CA-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
	x 0.1	=	mg/L
	x 0.2	=	mg/L
	x 1.0	=	mg/L
	x 2.0	=	mg/L

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Hydrogen, dissolved

Equipment: Bubble strip sampling field method

Start stripper at _____ (time)

End stripper at _____ (time)

Total stripper time _____

Pump rate _____ milliliters/minute

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JB/EW
Field Analyst: JB/EW

Sample ID No.: FC-MW7S-20091118
Sample Location:
Duplicate: ☐
Blank: ☐

Alkalinity:

Equipment: Chemetrics Test Kit

Concentration: 34 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-9810	34
☐	50 to 500 ppm	K-9815	
☐	100 to 1000 ppm	K-9820	

Analysis Time: 1621

Filtered: ☐

Equipment: HACH Digital Titrator AL-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 3.00 mg/L

Program/Module: 500nm 33

Concentration: 3 ppm

Analysis Time: 1631

Equipment: IR-18C Color Wheel Range: 0 - 10 mg/L

Notes:

Filtered: ☐

Hydrogen Sulfide (H_2S):

Range: 0 - 5 mg/L

Equipment: HS-C Other: _____

Exceeded 5.0 mg/L range on color chart: ☐

Concentration: 0 ppm

Analysis Time: 1637

Notes:

Sulfide (S^{2-}):

Equipment: Chemetrics Test Kit Range: 0 - 10 mg/L

Concentration: _____ ppm

Range Used:	Range	Method	Concentration ppm
☐	0 to 1 ppm	K-9510	
☐	1 to 10 ppm	K-9510	

Analysis Time: _____

Filtered: ☐

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.70 mg/L

Program/Module: 610nm 93

Notes:

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JB/EW
Field Analyst: JB/EW

Sample ID No.: FC-MW75-20091118
Sample Location:
Duplicate: ☐
Blank: ☐

Sulfate (SO_4^{2-}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 70 mg/L Concentration: _____ ppm
Program/Module: _____ 91 Analysis Time: _____

Standard Solution: ☐ Results: _____ Filtered: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

Nitrate (NO_3^--N):

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.50 mg/L (1) Concentration: _____ ppm
Program/Module: 55 Analysis Time: _____ Filtered: ☐

Standard Solution: ☐ Results: _____ Nitrite Interference Treatment: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Alternate forms: NO_2 _____ $NaNO_2$ _____ mg/L

Notes (1): If results are over limit use dilution method at step 3, 5ml sample 10ml DI result X3, range upto 1.5mg/L

Notes:

Nitrite (NO_2^--N):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 0.350 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 62
Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐
Notes:

Manganese (Mn^{2+}):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 20.0 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 525nm 41
Standard Solution: ☐ Results: _____ Digestion: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Equipment: HACH MN-5 Range: 0 - 3 mg/L
Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Values cited in the SAMPLING DATA block are consistent with the Groundwater Sample Log Sheet: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer (HACH) instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment was used for Nitrate test if Nitrite was detected: ☐
Title block on each page of form is initialized by person who performed this QA/QC Checklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-1185-20091119
Sample Location:
Sampled By: JBB
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 11-19-2009								
Time: 0855								
Method: Low Flow	clear	6.34	0.095	15.82	1.8	0.00	0.0	-80

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11-19-2009								
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material								
Type: 2"								
Total Well Depth (TD): 18.48								
Static Water Level (WL): 5.08								
One Casing Volume(gal/L):								
Start Purge (hrs): 0802								
End Purge (hrs): 0855								
Total Purge Time (min): 53								
Total Vol. Purged (gal/L): 5 gal								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40 mL glass vial	3
NO_2/NO_3/SO_4/Cl	—	125 mL poly	1
sulfide	Zn acetate	500 mL poly	1
MEE	HCl	40 mL glass vial	2
TOC	H_2SO_4	40 mL glass vial	2
Ammonia	H_2SO_4	250 mL poly	1
Total Fe and Mn	HNO_3	250 mL poly	1
DHB and DHC	—	Filter	1

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Jared Bikult

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G02045
WELL ID.: SA-PZ-118S-
DATE: 11-19-09

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
0802	5.08	400	5.94	0.105	12	3.02	18.11	11	0.0	
0807	5.08	360	6.26	0.104	8.3	0.46	17.17	-19	0.0	
0812	5.09	320	6.39	0.093	5.6	0.00	16.84	-15	0.0	
0817	5.09	320	6.38	0.092	4.7	0.00	16.40	-9	0.0	
0822	5.09	320	6.38	0.092	3.5	0.00	16.11	-20	0.0	
0827	5.09	320	6.38	0.093	3.3	0.06	16.05	-33	0.0	
0832	5.09	320	6.37	0.093	2.8	0.08	16.06	-46	0.0	
0837	5.09	320	6.36	0.094	2.7	0.00	15.87	-64	0.0	
0842	5.09	320	6.36	0.095	2.0	0.00	15.82	-68	0.0	
0847	5.09	320	6.34	0.095	2.1	0.00	15.83	-79	0.0	
0852	5.09	320	6.34	0.095	1.8	0.00	15.82	-80	0.0	
0855	collect sample									

SIGNATURE(S): [illegible]

PAGE 1 OF 1

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JBB
Field Analyst: JBB
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: SA-PZ-1185-20091119
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 11-19-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP (Eh)
Time: 0855	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	(+/- mv)
Method: Low Flow	clear	6.34	0.095	15.82	1.8	0.00	0.0	-80

SAMPLE COLLECTION/ANALYSIS INFORMATION:

ORP (Eh) (+/- mv)

Electrode Make & Model:_____

Reference Electrode (circle one): Silver-Silver Chloride / Calomel / Hydrogen

Dissolved Oxygen:

Equipment: Chemetrics Test Kit

Concentration: 0.8 ppm

Range Used:	Range	Method	Concentration ppm
☒	0 to 1 ppm	K-7510	0.8
☐	1 to 12 ppm	K-7512	

Analysis Time: 0900

Equipment: HACH Digital Titrator OX-DT

Analysis Time:_____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Concentration: 25 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-1910	25
☐	100 to 1000 ppm	K-1920	
☐	250 to 2500 ppm	K-1925	

Analysis Time: 0907

Equipment: HACH Digital Titrator CA-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Hydrogen, dissolved

Equipment: Bubble strip sampling field method

Start stripper at _____ (time)

End stripper at _____ (time)

Total stripper time _____

Pump rate _____ milliliters/minute

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JBB
Field Analyst: JBB

Sample ID No.: SA-PZ-1135-20091119
Sample Location:
Duplicate: ☐
Blank: ☐

Alkalinity:

Equipment: Chemetrics Test Kit

Concentration: 30 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-9810	30
☐	50 to 500 ppm	K-9815	
☐	100 to 1000 ppm	K-9820	

Analysis Time: 0904

Filtered: ☐

Equipment: HACH Digital Titrator AL-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 3.00 mg/L

Program/Module: 500nm 33

Concentration: 2.8 ppm

Analysis Time: 0914

Equipment: IR-18C Color Wheel Range: 0 - 10 mg/L

Notes:

Filtered: ☐

Hydrogen Sulfide (H_2S):

Range: 0 - 5 mg/L

Equipment: HS-C Other: _____

Concentration: 0 ppm

Exceeded 5.0 mg/L range on color chart: ☐

Analysis Time: 0916

Notes:

Sulfide (S^{2-}):

Equipment: Chemetrics Test Kit Range: 0 - 10 mg/L

Concentration: _____ ppm

Range Used:	Range	Method	Concentration ppm
☐	0 to 1 ppm	K-9510	
☐	1 to 10 ppm	K-9510	

Analysis Time: _____

Filtered: ☐

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.70 mg/L

Program/Module: 610nm 93

Notes:

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JBB
Field Analyst: JBB

Sample ID No.: SA-PZ-118S-20091119
Sample Location:
Duplicate: ☐
Blank: ☐

Sulfate (SO_4^{2-}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 70 mg/L Concentration: _____ ppm
Program/Module: _____ 91 Analysis Time: _____

Standard Solution: ☐ Results: _____ Filtered: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

Nitrate (NO_3^--N):

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.50 mg/L (1) Concentration: _____ ppm
Program/Module: 55 Analysis Time: _____ Filtered: ☐

Standard Solution: ☐ Results: _____ Nitrite Interference Treatment: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Alternate forms: NO_2 _____ $NaNO_2$ _____ mg/L

Notes (1): If results are over limit use dilution method at step 3, 5ml sample 10ml DI result X3, range upto 1.5mg/L

Notes:

Nitrite (NO_2^--N):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 0.350 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 62
Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐
Notes:

Manganese (Mn^{2+}):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 20.0 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 525nm 41
Standard Solution: ☐ Results: _____ Digestion: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Equipment: HACH MN-5 Range: 0 - 3 mg/L
Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Values cited in the SAMPLING DATA block are consistent with the Groundwater Sample Log Sheet: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer (HACH) instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment was used for Nitrate test if Nitrite was detected: ☐
Title block on each page of form is initialized by person who performed this QA/QC Checklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-PZ-123I2-111909
Sample Location: SA-PZ-123I2
Sampled By: E. Wu
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/19/09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0850	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: low flow	clear	5.68	0.118	11.55	0.52	0.0	0.0	108

PURGE DATA:

Date: 11/19/09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: low flow	see	low	flow	purge	data	sheet		
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL): 9.69								
One Casing Volume(gal/L):								
Start Purge (hrs): 0805								
End Purge (hrs): 0850								
Total Purge Time (min): 45 min								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL	~~4 oz~~ 40 ml glass (3)	✓
$NO_2/NO_3/SO_4/Cl$	—	125 ml POLY	✓
Sulfide	Zn Acetate	500 ml POLY	✓
Ammonia	H_2SO_4	250 ml POLY	✓
MEE	HCL	(2) 40 ml glass	✓
Total Fe/Mn	HNO_3	250 ml POLY	✓
TOC	H_2SO_4	(2) 40 ml glass	✓
DHC/DHB/Functional genes	—	filter	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: ~~HZ~~ NWIRP CALVERTON
PROJECT NUMBER: 112G02045
WELL ID.: SA-PZ-12311
DATE: 11/19/09

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	9.69	250	5.29	0.112	0.65	1.04	11.71	139	0.0	clear
0810	9.69	250	5.66	0.174	0.43	0.00	11.60	113	0.0	
0815	9.69	250	5.68	0.167	0.56	0.00	11.56	112	0.0	
0820	9.69	250	5.68	0.150	0.64	0.00	11.54	111	0.0	
0830	9.69	250	5.68	0.137	0.42	0.00	11.48	109	0.0	
0835	9.69	250	5.68	0.119	0.50	0.00	11.56	108	0.0	
0840	9.69	250	5.68	0.117	0.47	0.00	11.55	108	0.0	
0845	9.69	250	5.68	0.118	0.52	0.00	11.55	108	0.0	clear

SIGNATURE(S): [signature]

PAGE 1 OF 1

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP CAL
Project No.: 112602045
Sampled By: EW
Field Analyst: EW
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: SA-P2-~~#2~~ 123I1-111909
Sample Location: SA-P2-123I1
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 11/19/09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP (Eh)
Time: 0850	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(+/- mv)
Method: low flow	clear	5.68	0.118	11.55	0.52	0.0	0.0	108

SAMPLE COLLECTION/ANALYSIS INFORMATION:

ORP (Eh) (+/- mv)

Electrode Make & Model: Horiba 0-22

Reference Electrode (circle one): Silver-Silver Chloride / Calomel / Hydrogen

Dissolved Oxygen:

Equipment: Chemetrics Test Kit

Concentration: 0.9 ppm

Range Used:	Range	Method	Concentration ppm
☑	0 to 1 ppm	K-7510	0.9
☑	1 to 12 ppm	K-7512	—

Analysis Time: 0855

Equipment: HACH Digital Titrator OX-DT

Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Concentration: 25 ppm

Range Used:	Range	Method	Concentration ppm
☑	10 to 100 ppm	K-1910	25
☐	100 to 1000 ppm	K-1920	
☐	250 to 2500 ppm	K-1925	

Analysis Time: 0910

Equipment: HACH Digital Titrator CA-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Hydrogen, dissolved

Equipment: Bubble strip sampling field method

Start stripper at _____ (time)

End stripper at _____ (time)

Total stripper time _____

Pump rate _____ milliliters/minute

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Colleton
Project No.: 112G02045
Sampled By: EW
Field Analyst: EW

Sample ID No.: SA-PZ-123II-111909
Sample Location: SA-PZ-123II
Duplicate: ☐
Blank: ☐

Alkalinity:

Equipment: Chemetrics Test Kit

Concentration: 14 ppm

Range Used:	Range	Method	Concentration ppm
☑	10 to 100 ppm	K-9810	14
☐	50 to 500 ppm	K-9815	
☐	100 to 1000 ppm	K-9820	

Analysis Time: 0905

Filtered: ☐

Equipment: HACH Digital Titrator AL-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 3.00 mg/L

Program/Module: 500nm 33

Concentration: 0.8 ppm

Analysis Time: 0915

Equipment: IR-18C Color Wheel Range: 0 - 10 mg/L

Notes:

Filtered: ☐

Hydrogen Sulfide (H_2S):

Range: 0 - 5 mg/L

Equipment: HS-C Other: _____

Exceeded 5.0 mg/L range on color chart: ☐

Concentration: 0.0 ppm

Analysis Time: 0920

Notes:

Sulfide (S^{2-}):

Equipment: Chemetrics Test Kit Range: 0 - 10 mg/L

Concentration: _____ ppm

Range Used:	Range	Method	Concentration ppm
☐	0 to 1 ppm	K-9510	
☐	1 to 10 ppm	K-9510	

Analysis Time: _____

Filtered: ☐

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.70 mg/L

Program/Module: 610nm 93

Notes:

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Colverton
Project No.: 112G0245

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-127I-111909
Sample Location: SA-MW 127I
Sampled By: EW
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/19/09	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1120								
Method: low flow	clear	6.13	0.118	12.90	1.6	0.0	0.0	106

PURGE DATA:

Date: 11/19/09	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: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL): 7.10								
One Casing Volume(gal/L):								
Start Purge (hrs): 1030								
End Purge (hrs): 1120								
Total Purge Time (min): 50 min								
Total Vol. Purged (gal/L): 4.5 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCL	(3) 40 ml glass vials	✓
NO_2/NO_3/SO4/Chl	—	125 ml Poly	✓
Sulfide	Zn Acetate	500 ml Poly	✓
Ammonia	H_2SO_4	250 ml Poly	✓
MEE	HCL	(2) 40 ml glass vial	✓
TOTAL Fe/Mn	HNO_3	250 ml Poly	✓
TOC	H_2SO_4	(2) 40 ml glass vials	✓
DHC/DHB/ Functional genes	—	Filter	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP CALVERTON
PROJECT NUMBER: 112G02045
WELL ID.: SA-MW-127I
DATE: 11/19/09

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
1030	7.10	~~200~~ 250	5.79	0.192	300	2.93	12.69	41	0.0	~~Clear~~ Slightly cloudy
1045	7.10	250	6.10	0.115	230	0.00	12.65	107	0.0	Clear, sm particulate
1050	7.10	200	6.10	0.110	160	0.00	12.76	109	0.0	
1100	7.10	200	6.15	0.116	2.6	0.00	12.85	102	0.0	clear
1105	7.10	200	6.14	0.112	1.0	0.00	12.89	105	0.0	
1110	7.10	200	6.14	0.116	2.0	0.00	12.91	105	0.0	
1115	7.10	200	6.13	0.116	1.7	0.00	12.92	106	0.0	clear
1120	7.10	200	6.13	0.118	1.6	0.00	12.90	106	0.0	clear

SIGNATURE(S): [signature]

PAGE 1 **OF** 1

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP CALVERTON
Project No.: 112G02045
Sampled By: EW
Field Analyst: EW
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: SA-MW-127I-111909
Sample Location: SA-MW-127I
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP (Eh)
Date: 11/19/09								
Time: 1120	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(+/- mv)
Method: LOW FLOW	Clear	6.13	0.118	12.90	1.6	0.0	0.0	106

SAMPLE COLLECTION/ANALYSIS INFORMATION:

ORP (Eh) (+/- mv)

Electrode Make & Model: HORIBA U-22

Reference Electrode (circle one): Silver-Silver Chloride / Calomel / Hydrogen

Dissolved Oxygen:

Equipment: Chemetrics Test Kit

Concentration: 0.8 ppm

Range Used:	Range	Method	Concentration ppm
☑	0 to 1 ppm	K-7510	0.8
☐	1 to 12 ppm	K-7512	

Analysis Time: 1125

Equipment: HACH Digital Titrator OX-DT

Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Concentration: 25 ppm

Range Used:	Range	Method	Concentration ppm
☑	10 to 100 ppm	K-1910	25
☐	100 to 1000 ppm	K-1920	
☐	250 to 2500 ppm	K-1925	

Analysis Time: 1133

Equipment: HACH Digital Titrator CA-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Hydrogen, dissolved

Equipment: Bubble strip sampling field method

Start stripper at _____ (time)

End stripper at _____ (time)

Total stripper time _____

Pump rate _____ milliliters/minute

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP CALVERTON
Project No.: 112G02045
Sampled By: EW
Field Analyst: EW

Sample ID No.: SA-MW127I-111909
Sample Location: SA-MW127I
Duplicate: ☐
Blank: ☐

Alkalinity:

Equipment: Chemetrics Test Kit

Concentration: 35 ppm

Range Used:	Range	Method	Concentration ppm
☑	10 to 100 ppm	K-9810	35
☐	50 to 500 ppm	K-9815	
☐	100 to 1000 ppm	K-9820	

Analysis Time: 1130

Filtered: ☐

Equipment: HACH Digital Titrator AL-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 3.00 mg/L
Program/Module: 500nm 33

Concentration: 0.2 ppm

Analysis Time: 1140

Equipment: IR-18C Color Wheel Range: 0 - 10 mg/L

Notes:

Filtered: ☐

Hydrogen Sulfide (H_2S):

Range: 0 - 5 mg/L

Equipment: HS-C Other: _____

Exceeded 5.0 mg/L range on color chart: ☐

Concentration: 0.0 ppm

Analysis Time: 1144

Notes:

Sulfide (S^{2-}):

Equipment: Chemetrics Test Kit Range: 0 - 10 mg/L

Concentration: _____ ppm

Range Used:	Range	Method	Concentration ppm
☐	0 to 1 ppm	K-9510	
☐	1 to 10 ppm	K-9510	

Analysis Time: _____

Filtered: ☐

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.70 mg/L
Program/Module: 610nm 93

Notes:

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: ~~SA-MW-128D-20091119~~ 112G02045
WELL ID.: SA-MW-128D-20091119
DATE: 11-19-2009

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
1025	9.80	Start purge								fix tubing connecting air sampling
1035	9.80	240	5.97	0.069	35	3.83	16.70	-94	0.0	in
1040	9.80	250	5.97	0.072	100	0.00	15.37	-121	0.0	bubbles forming in tubing;
1045	9.81	250	5.95	0.071	90	0.00	14.63	-121	0.0	tube connections sealed.
1050	9.81	250	5.93	0.071	50	0.00	14.48	-109	0.0	bubbles degassing from water
1055	9.81	250	5.90	0.070	32	0.00	14.38	-108	0.0	
1100	9.81	250	5.87	0.067	26	0.00	14.36	-109	0.0	
1105	9.81	250	5.86	0.068	19	0.00	14.31	-110	0.0	
1110	9.81	250	5.87	0.067	16	0.00	14.33	-111	0.0	bend in tubing filled w/gas
1115	9.81	250	5.87	0.067	14	0.00	14.37	-111	0.0	
1117	Collect sample									

SIGNATURE(S): [illegible]

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Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW-128D-20091119
Sample Location:
Sampled By: JBB
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 11-19-09								
Time: 1117								
Method: Low Flow	clear	5.87	0.067	14.37	14	0.00	0.0	-111

PURGE DATA:

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11-19-09								
Method: Low Flow								
Monitor Reading (ppm): —								
Well Casing Diameter & Material Type: 2"								
Total Well Depth (TD): 70.24								
Static Water Level (WL): 9.80								
One Casing Volume(gal/L):								
Start Purge (hrs): 1025								
End Purge (hrs): 1117								
Total Purge Time (min): 52								
Total Vol. Purged (gal/L): 3.5								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40mL glass vial	9
NO_2/NO_3/SO_4/Chl	—	125mL poly	2
Sulfide	Zn acetate	500mL poly	2
MEE	HCl	40 mL glass vial	6
TOC	H_2SO_4	40 mL glass vial	4
Ammonia	H_2SO_4	250 mL poly	2
Total Fe and Mn	HNO_3	250 mL poly	2
DHB and DHC	—	Filter	1

OBSERVATIONS / NOTES:

SA-MW-128S 9.16' bgs
bubbles in tubing from degassing

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	—

Signature(s):

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JBB
Field Analyst: JBB
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: SA-MW-128D-20091119
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 11-19-2009	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP (Eh)
Time: 1117	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	(+/- mv)
Method: Low Flow	clear	5.87	0.067	14.37	14	0.00	0.0	-111

SAMPLE COLLECTION/ANALYSIS INFORMATION:

ORP (Eh) (+/- mv)

Electrode Make & Model:_____

Reference Electrode (circle one): Silver-Silver Chloride / Calomel / Hydrogen

Dissolved Oxygen:

Equipment: Chemetrics Test Kit

Concentration: 0.5 ppm

Range Used:	Range	Method	Concentration ppm
☒	0 to 1 ppm	K-7510	0.5
☐	1 to 12 ppm	K-7512	

Analysis Time: 1127

Equipment: HACH Digital Titrator OX-DT

Analysis Time:_____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Concentration: 31 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-1910	31
☐	100 to 1000 ppm	K-1920	
☐	250 to 2500 ppm	K-1925	

Analysis Time: 1133

Equipment: HACH Digital Titrator CA-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
_____	x 0.2	= mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Hydrogen, dissolved

Equipment: Bubble strip sampling field method

Start stripper at _____ (time)

End stripper at _____ (time)

Total stripper time _____

Pump rate _____ milliliters/minute

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JBB
Field Analyst: JBB

Sample ID No.: SA-MW-12BD-20091119
Sample Location:
Duplicate: ☐
Blank: ☐

Alkalinity:

Equipment: Chemetrics Test Kit

Concentration: 14 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-9810	14
☐	50 to 500 ppm	K-9815	
☐	100 to 1000 ppm	K-9820	

Analysis Time: 1130

Filtered: ☐

Equipment: HACH Digital Titrator AL-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 3.00 mg/L
Program/Module: 500nm 33

Concentration: 3.0 ppm

Analysis Time: 1140

Equipment: IR-18C Color Wheel Range: 0 - 10 mg/L

Notes:

Filtered: ☐

Hydrogen Sulfide (H_2S):

Range: 0 - 5 mg/L

Equipment: HS-C Other: _____

Concentration: 0 ppm

Exceeded 5.0 mg/L range on color chart: ☐

Analysis Time: 1145

Notes:

Sulfide (S^{2-}):

Equipment: Chemetrics Test Kit Range: 0 - 10 mg/L

Concentration: _____ ppm

Range Used:	Range	Method	Concentration ppm
☐	0 to 1 ppm	K-9510	
☐	1 to 10 ppm	K-9510	

Analysis Time: _____

Filtered: ☐

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.70 mg/L
Program/Module: 610nm 93

Notes:

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JBB
Field Analyst: JBB

Sample ID No.: SA-MW-128D-20091119
Sample Location:
Duplicate: ☐
Blank: ☐

Sulfate (SO_4^{2-}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 70 mg/L Concentration: _____ ppm
Program/Module: _____ 91 Analysis Time: _____

Standard Solution: ☐ Results: _____ Filtered: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

Nitrate (NO_3^--N):

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.50 mg/L (1) Concentration: _____ ppm
Program/Module: 55 Analysis Time: _____ Filtered: ☐

Standard Solution: ☐ Results: _____ Nitrite Interference Treatment: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Alternate forms: NO_2 _____ $NaNO_2$ _____ mg/L

Notes (1): If results are over limit use dilution method at step 3, 5ml sample 10ml DI result X3, range upto 1.5mg/L

Notes:

Nitrite (NO_2^--N):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 0.350 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 62
Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐
Notes:

Manganese (Mn^{2+}):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 20.0 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 525nm 41
Standard Solution: ☐ Results: _____ Digestion: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Equipment: HACH MN-5 Range: 0 - 3 mg/L
Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Values cited in the SAMPLING DATA block are consistent with the Groundwater Sample Log Sheet: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer (HACH) instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment was used for Nitrate test if Nitrite was detected: ☐
Title block on each page of form is initialized by person who performed this QA/QC Checklist: ☐

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: 112G02045

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: SA-MW 131-D-20091113
Sample Location: SA-MW 131D
Sampled By: JBB
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11-18-09	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1408	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method: Low Flow	clear	6.04	0.108	13.00	2.2	0.00	0.0	-104

PURGE DATA:

Date: 11-18-09	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Low Flow								
Monitor Reading (ppm): NA								
Well Casing Diameter & Material								
Type: 2"								
Total Well Depth (TD): 71.85								
Static Water Level (WL): 7.80								
One Casing Volume(gal/L):								
Start Purge (hrs): 1320								
End Purge (hrs): 1408								
Total Purge Time (min): 48								
Total Vol. Purged (gal/L): 35 gal								

See low flow purge sheet

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	40mL vial	3
$NO_2/NO_3/SO_4/Cl$	—	125mL Poly	1
sulfide	Zn Acetate ~~NaOH~~ NaOH	500mL Poly	1
MEE	HCl	40 mL vial	2
TOC	H_2SO_4	40 mL vial	2
Ammonia	H_2SO_4	250 mL poly	1
Total Fe and Mn	HNO_3	250 mL poly	1
DHB and DHC	—	Filter	1

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 112G02045
WELL ID.: SA-MW 131-D
DATE: 11/18/09

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	Start pump, flow not occuring, switch out tubing, still no flow, check set-up, everything ok, Geopump gears reversed, start purge at 1320									
1324	7.79	275	5.65	0.126	250	0.90	14.06	-65	0.0	
1328	7.79	275	6.05	0.119	37	0.00	14.22	-111	0.0	
1333	7.79	275	6.12	0.115	15	0.00	13.67	-111	0.0	
1338	7.79	275	6.11	0.113	9.9	0.00	13.43	-108	0.0	
1343	7.80	275	6.06	0.110	5.9	0.00	13.21	-102	0.0	
1348	7.80	275	6.00	0.110	4.9	0.00	13.01	-100	0.0	
1353	7.80	275	6.00	0.108	3.6	0.00	13.04	-100	0.0	
1358	7.80	275	6.01	0.109	2.4	0.00	12.97	-102	0.0	
1403	7.80	275	6.04	0.108	2.2	0.00	13.00	-104	0.0	
1408	collect sample									

SIGNATURE(S): [signature]

PAGE 1 **OF** 1

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JB/EW
Field Analyst: JB/EW
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.: SA-MW-131D-20091118
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 11-18-2009	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP (Eh)
Time: 1408	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	(+/- mv)
Method: Low Flow	clear	6.04	0.108	13.00	2.2	0.00	0.0	-104

SAMPLE COLLECTION/ANALYSIS INFORMATION:

ORP (Eh) (+/- mv)

Electrode Make & Model:_____

Reference Electrode (circle one): Silver-Silver Chloride / Calomel / Hydrogen

Dissolved Oxygen:

Equipment: Chemetrics Test Kit

Concentration: 0.0 ppm

Range Used:	Range	Method	Concentration ppm
☒	0 to 1 ppm	K-7510	0.0
☐	1 to 12 ppm	K-7512	

Analysis Time: 1411

Equipment: HACH Digital Titrator OX-DT

Analysis Time:_____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Concentration: 36 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-1910	36
☐	100 to 1000 ppm	K-1920	
☐	250 to 2500 ppm	K-1925	

Analysis Time: 1416

Equipment: HACH Digital Titrator CA-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Hydrogen, dissolved

Equipment: Bubble strip sampling field method

Start stripper at _____ (time)

End stripper at _____ (time)

Total stripper time _____

Pump rate _____ milliliters/minute

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JB/EW
Field Analyst: JB/EW

Sample ID No.: SA-MW-131D-20091118
Sample Location:
Duplicate: ☐
Blank: ☐

Alkalinity:

Equipment: Chemetrics Test Kit

Concentration: 40 ppm

Range Used:	Range	Method	Concentration ppm
☒	10 to 100 ppm	K-9810	40
☐	50 to 500 ppm	K-9815	
☐	100 to 1000 ppm	K-9820	

Analysis Time: 1414

Filtered: ☐

Equipment: HACH Digital Titrator AL-DT

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

Standard Additions: ☐ Titrant Molarity:_____ Digits Required: 1st.:_____ 2nd.:_____ 3rd.:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 3.00 mg/L

Program/Module: 500nm 33

Concentration: 3.8 ppm

Analysis Time: 1424

Equipment: IR-18C Color Wheel Range: 0 - 10 mg/L

Notes:

Filtered: ☐

Hydrogen Sulfide (H_2S):

Range: 0 - 5 mg/L

Equipment: HS-C Other: _____

Concentration: 0 ppm

Exceeded 5.0 mg/L range on color chart: ☐

Analysis Time: 1427

Notes:

Sulfide (S^{2-}):

Equipment: Chemetrics Test Kit Range: 0 - 10 mg/L

Concentration: _____ ppm

Range Used:	Range	Method	Concentration ppm
☐	0 to 1 ppm	K-9510	
☐	1 to 10 ppm	K-9510	

Analysis Time: _____

Filtered: ☐

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.70 mg/L

Program/Module: 610nm 93

Notes:

Note: Analyte, method, and/or equipment may be deleted from form if not being performed.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NWIRP Calverton
Project No.: 112G02045
Sampled By: JB/EW
Field Analyst: JB/EW

Sample ID No.: SAMW-131D-20090911 18
Sample Location:
Duplicate: ☐
Blank: ☐

Sulfate (SO_4^{2-}):

Equipment: DR-850 DR-8 _ _ Range: 0 - 70 mg/L Concentration: _____ ppm
Program/Module: _____ 91 Analysis Time: _____

Standard Solution: ☐ Results: _____ Filtered: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

Nitrate (NO_3^--N):

Equipment: DR-850 DR-8 _ _ Range: 0 - 0.50 mg/L [1] Concentration: _____ ppm
Program/Module: 55 Analysis Time: _____ Filtered: ☐

Standard Solution: ☐ Results: _____ Nitrite Interference Treatment: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Alternate forms: NO_2 _____ $NaNO_2$ _____ mg/L

Notes (1): If results are over limit use dilution method at step 3, 5ml sample 10ml DI result X3, range upto 1.5mg/L

Notes:

Nitrite (NO_2^--N):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 0.350 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 62
Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐
Notes:

Manganese (Mn^{2+}):

Concentration: _____ ppm
Equipment: DR-850 DR-8 _ _ Range: 0 - 20.0 mg/L Analysis Time: _____ Filtered: ☐
Program/Module: 525nm 41
Standard Solution: ☐ Results: _____ Digestion: ☐ Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Equipment: HACH MN-5 Range: 0 - 3 mg/L
Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐
Correct measurement units are cited in the SAMPLING DATA block: ☐
Values cited in the SAMPLING DATA block are consistent with the Groundwater Sample Log Sheet: ☐
Mulitplication is correct for each *Multiplier* table: ☐
Final calulated concentration is within the appropriate *Range Used* block: ☐
Alkalinity *Relationship* is determined appropriatly as per manufacturer (HACH) instructions: ☐
QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐
Nitrite Interference treatment was used for Nitrate test if Nitrite was detected: ☐
Title block on each page of form is initialized by person who performed this QA/QC Checklist: ☐

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project Number: 112G02245
Sample Location: NWIRP Calverton
QA Sample Type:

Sample ID Number: CA-TB01-111809
Sampled By: LAB prep
C.O.C. Number:

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: Shipped 11/18/09
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		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 CAL Bio Supply
Project Number: 112G02045
Sample Location: —
QA Sample Type:

Sample ID Number: CA-TB#1-111909
Sampled By: — Lab Prep
C.O.C. Number: 21125

[X] Trip Blank
[] Source Water Blank
[] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 11/19/09
Time: — lab prep
Method:

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 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):

21123

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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:
Airbill No.:
Sampling Complete? Y or N

Client/Reporting Information

Company Name: Tetra Tech NUS
Address: 5700 Lake Wright Dr
City: Norfolk State: VA Zip: 23502
Project Contact: DANE BRAYACK
Phone #: (757) 461-3768
Sampler's Name: EW / JB

Project Information

Project Name: NWIRP CALVERTON GW
Sampling Location: NWIRP CALVERTON
Turnaround time: 14 day
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
~~AQ Aqueous~~

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other Ascorbic	TCL VOC 75 3 40ml	NO2/NO3/SO4/Cl2 35 125 + AA	SULFIDE 25 500	AMMONIA 15 250	MEE 10 2-40ml	TOTAL Fe/Mn 25 250	TOC 2-40ml				pH / Sample Info (Lab Use) Sulfide	Ammonia	Total Fe/Mn	TOC
0911126-01	SA-MW105D-111809	11/18/09	1205	GW	11	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓				>9	<2	<2	<2
-02	SA-MW131D-111809	11/18/09	1408	GW	11	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓				>9	<2	<2	<2
-03	FC-MW07S-111809	11/18/09	1615	GW	11	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓				>9	<2	<2	<2
-04	CA-TB01-111809	—	—	~~AQ~~ TB	2	✓						✓													

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By: [illegible]
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:
~~TB~~ Trip Blank CA-TB01-111809 use for samples on COC #2613 (TENUS COC) also

Sample Custody

Relinquished by:	Date/Time: 11/18/09 1700	Received by: Diane Byrd	Date/Time: 11/19/09 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: 5.9 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

david.brayack@tetratech.com

21125

75

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: TETRA TECH NUS
Address: 5700 LAKE WRIGHT DR.
City: NORFOLK State: VA Zip: 23502
Project Contact: DAVE BRAYACK
Phone #: (757) 461-3768
Sampler's Name: E Wu / J Birkett

Project Information

Project Name: NWIRP CALVERTON / 112G02045
Sampling Location: NWIRP CALVERTON
Turnaround time: 14 DAY
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	HCl	NaOH	HNO3	H2SO4	MEOH	Other Zn Acetate	TCL VOC (3-40ml)	NO2/NO3/SO4/Chl (1-125ml)	SULFIDE (1-500ml)	AMMONIA (1-250ml)	MEE (2-40ml)	TOTAL Fe/Mn (1-250ml)	TOC (2-40ml)				pH / Sample Info (Lab Use): Sulfide	Ammonia	TOC	Metals
09 112605	SA-PZ-118S-111909	11/19	0855	GW	11	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓				A	<2	<2	<2
-06	SA-PZ-123I1-111909	11/19	0850	GW	11	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓				A	<2	<2	<2
-07	SA-MW-128D-111909	11/19	1117	GW		✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	MS/MSD			A	<2	<2	<2
-08	SA-MW-A71-111909	11/19	1120	GW	11	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓				A	<2	<2	<2
~~—~~	~~CA-TB02-111909~~	~~11/19~~	~~—~~	~~TB~~	~~3~~	✓						✓													
✓ -09	CA-TB01-111909	11/19		TB	3	✓						✓	mL TB vial has < pea size air bubble												

11/20/09

Lab Use Only

Sample Unpacked By: K Manning
Sample Order Entry By: [illegible]
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

SA-MW-128D-111909 — MS/MSD
TB-lab prep.
Field Copy SA-PZ-118I1-111809 11/19 0850 for Ammonia sulfide/all other containers for 11/19 0850 are labeled SA-PZ-118I1-111909 11/20

Sample Custody

Relinquished by:	Date/Time: 11/19/09 1330	Received by:	Date/Time: 11-20-09 0915
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: 1.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

IR Gun #: SN8010

REPORT TO:

Reports will be provided to the contact(s) listed below. Parties other than the contact(s) listed below will require prior approval.

Name: Dave Brayack
Company: Tetra Tech NUS
Address: 5700 Lake Wright Dr
Norfolk VA 23502

email:
Phone: (757) 461-3926
Fax: ( )

Project Manager: Dave Brayack
Project Name: NWIRP CALVERTON
Project No.: 112G02045

INVOICE TO:

For Invoices **paid by a third party** it is imperative that contact information & corresponding reference No. be provided.

Name: SAME AS Report
Company:
Address:

email:
Phone: (.)
Fax: ( )

Purchase Order No.
Subcontract No.

microbialinsights

2340 Stock Creek Blvd.
Rockford, TN 37853-3044
phone (865) 573-8188
fax: (865) 573-8133
email: info@microbe.com
www.microbe.com

Please Check One:
☒ More samples to follow
☐ No Additional Samples

Saturday Delivery
Please see sampling protocol for instructions

Report Type: ☐ Standard (default) ☐ Comprehensive (15% surcharge) ☐ Historical (30% surcharge)

Please contact us prior to submitting samples regarding questions about the analyses you are requesting at (865) 573-8188 (8:00 am to 4:00 pm M-F). After these hours please call (865) 300-8053.

Sample Information / **CENSUS:** Please select the target organism/gene

MI ID (Laboratory Use Only)	Sample Name	Date Sampled	Time Sampled	Matrix	PLFA	VFA	M/E/E	DGGE+3ID	DGGE+5ID		qDHC (Dehalococcoides)	DHC Functional genes	qDHB (Dehalobacter)	qDSM (Desulfuromonas)	qDSB (Desulfitobacterium)	qEBAC (Total)	qDSR (SRBs only)	qSRB/IRB	qMGN (methanogens)	qMOB (methanotrophs)	qDNF (Dentrifying)	qAOB (ammonia oxidizing)	qPM1 (MTBE aerobic)	qTOD (Intial PAHs aerobic)	qCAT (Intermediate PAHs aerobic)	qBSS (Toluen/Xylene Anaerobic)	qNAH (Napthalene aerobic)	add. qPCR:	add. qPCR:	add. qPCR:	RNA (Expression Option)*	Other:	Other:	Other:	Other:
044GK 1	FT-MW-131D-111809	11/18/09	1408	GW							✓	✓	✓																						
2	FC-MW07S-111809	11/18/09	1615	GW							✓	✓	✓																						

Relinquished by: [signature] Date: 11/18/09 1715 Received by: [signature] Date 11/19/09

In order for analysis to be completed correctly, it is vital that chain of custody is filled out correctly & that all relative information is provided. Failure to provide sufficient and/or correct information regarding reporting, invoicing & analyses requested information may result in delays for which MI will not be liable. *** additional cost and sample preservation are associated with RNA samples.**

Appendix F
2008/2009 Monitoring Well Analytical Results
NWIRP Calverton, New York

Location	Screened Interval (ft bgs)	Sample Date	1,1,1-TCA (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	CE (µg/L)	Ethane (µg/L)	DHC (cells/mL)	DHB (cells/mL)	tceA Reductase (cells/mL)	bvcA Reductase (cells/mL)	Vinyl Chloride Reductase (cells/mL)	Fe^{2+} (µg/L)	Mn (µg/L)	Chloride (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Alkalinity (mg/L)	Ammonia (mg/L)	Sulfide (mg/L)	TOC (mg/L)
Site 6A-Fuel Calibration Area																							
FC-MW-07-S	5-15	Jan-08	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	ND	ND	ND	ND	1 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Nov-09	ND	ND	ND	ND	ND	ND	20.2	9,840	ND	ND	ND	4,260	22.2	6	ND	ND	13	26.7	0.1	ND	1.59
Onsite Southern Area																							
SA-MW-127I	36-46	Jan-08	94	410	30	ND	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	94	470	30	ND	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	61	270	20	ND	29	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Nov-09	41	200	9	ND	23	ND	5.6	50,800	ND	ND	ND	61.8	1,920	9.2	0.45	ND	12	33.7	ND	ND	1
SA-MW-128D	58-68	Jan-08	ND	5	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	ND	7	0.4 J	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	ND	2.9 J	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Nov-09	ND	2.5 J	ND	ND	ND	ND	0.2 J	135	ND	ND	ND	3,780	181	6.4	ND	ND	12	13.6	0.11	ND	1.9
Offsite Southern Area																							
SA-MW-131D	60-70	Jan-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	ND	15	1.5 J	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Nov-09	ND	12	1.2 J	ND	ND	ND	0.3 J	3,180	ND	0.2 J	ND	17,400	229	8.5	2.6	ND	19	40.3	0.1	ND	1.6
SA-PZ-123I1	22-32	Jan-08	4 J	23	3 J	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	2	13	2	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	ND	6.3	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Nov-09	ND	11	ND	ND	ND	ND	0.3 J	3,350	ND	ND	ND	629	476	11	ND	ND	14	16.8	0.21	ND	1.52
Offsite Southern Area: Along Peconic River																							
SA-PZ-118S	6-16	Jan-08	ND	4 J	1 J	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	ND	17	4	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	ND	2.5 J	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Nov-09	ND	5.5	0.98 J	ND	ND	ND	0.9	517	ND	ND	ND	2,510	122	12	ND	ND	6.4	31	0.63	ND	2.37

Notes
ft bgs : feet below ground surface
µg/L : Micrograms per liter
mg/L : Miligrams per liter
-- : Not Analyzed
J : Estimated Value
ND : Non-Detect
1,1,1-TCA : 1,1,1-Trichloroethane
1,1-DCA : 1,1-Dichloroethane
1,1-DCE : 1,1-Dichloroethene
VC : Vinyl Chloride
CE : Chloroethane
DHC : Dehalococcoides
DHB : Dehalobacter
Fe^{2+} : Ferrous Iron
Mn : Manganese
TOC : Total Organic Carbon

Appendix F
2008/2009 Groundwater Monitoring Well Sampling Field Measurements
NWIRP Calverton, New York

			Horiba Readings						Test Kits				
Location	**Screened Interval (ft bgs)**	**Sample Date**	**pH (S.U.)**	**SC (µS/cm)**	**Temp. (°C)**	**Turb. (NTU)**	**DO (mg/L)**	**ORP (mV)**	**DO (mg/L)**	**CO2 (mg/L)**	**Alkalinity (mg/L)**	**FE2+ (mg/L)**	**H2S (mg/L)**
Site 6A-Fuel Calibration Area													
FC-MW-07-S	5-15	Jan-08	6.14	78	11.17	3.39	2.22	-120.8	--	--	--	--	--
		Jul-08	6.3	61	17.5	5.53	0.54	-101	--	--	--	--	--
		Sep-09	5.58	80	20.81	0.78	0.37	-20	--	--	--	--	--
		Nov-09	6.07	80	16.94	3.1	0	-91	1	30	34	3	0
Onsite Southern Area													
SA-MW-127I	36-46	Jan-08	6.12	169	11.31	4.44	0.56	38	--	--	--	--	--
		Jul-08	6.36	113	13.6	1.35	0.44	82	--	--	--	--	--
		Sep-09	5.16	83	13.07	0	0.19	42	--	--	--	--	--
		Nov-09	6.13	118	12.9	1.6	0	106	0.8	25	35	0.2	0
SA-MW-128D	58-68	Jan-08	6.17	289	10.88	10	0.36	-133	--	--	--	--	--
		Jul-08	6.32	77	14.2	8.26	0.27	-93	--	--	--	--	--
		Sep-09	5.52	75	16.22	128	0.52	-12	--	--	--	--	--
		Nov-09	5.87	67	14.37	14	0	-111	0.5	31	14	3	0
Offsite Southern Area													
SA-MW-131D	60-70	Jan-08	--	--	--	--	--	--	--	--	--	--	--
		Jul-08	--	--	--	--	--	--	--	--	--	--	--
		Sep-09	6.02	292	15.17	29.2	0.39	-82	--	--	--	--	--
		Nov-09	6.04	108	13	2.2	0	-104	0	36	40	3.8	0
SA-PZ-123I1	22-32	Jan-08	5.64	86	10.11	0.52	1.72	54	--	--	--	--	--
		Jul-08	5.67	128	13.46	0	5.28	189	--	--	--	--	--
		Sep-09	5.18	76	14.04	0	0.19	31	--	--	--	--	--
		Nov-09	5.68	118	11.55	0.52	0	108	0.9	25	14	0.8	0
Offsite Southern Area: Along Peconic River													
SA-PZ-118S	6-16	Jan-08	6.33	129	9.84	1.55	2.72	-93.2	--	--	--	--	--
		Jul-08	6.66	107	17.3	0.67	0.3	-128	--	--	--	--	--
		Sep-09	5.68	139	19.02	6.45	0.45	-61	--	--	--	--	--
		Nov-09	6.34	95	15.82	1.8	0	-80	0.8	25	30	2.8	0

Notes

ft bgs : feet below ground surface
S.U. : Standard units
µS/cm : Microsiemens per centimeter
°C : Degrees celsius
NTU : Nephelometric Turbidity Units
mg/L : miligrams per liter
mV : milivolts
SC : Specific Conductivity

DO : Dissolved Oxygen
CO_2 : Carbon Dioxide
Fe^{2+} : Ferrous Iron
H_2S : Hydrogen Sulfide
-- : Not Analyzed

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-TB01-111809

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0469

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-TB01-111809

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0469

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-TB01-111909

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0969

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-TB01-111909

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0969

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW07S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0369

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW07S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0369

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW105D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0169

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW105D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0169

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0569

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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	0.98	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.5	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0569

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0669

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	11	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0669

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0869

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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	23	
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	9.0	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	200	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	41	
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0869

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	2.4	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	2.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0769

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.5	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0769

Level: (low/med) LOW Date Received: 11/20/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW131D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0269

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	12	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW131D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911126-0269

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FC-MW07S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-03

Level (low/med): LOW Date Received: 11/19/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	4260			P
7439-96-5	Manganese	22.2			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SA-MW105D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-01

Level (low/med): LOW Date Received: 11/19/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	3750			P
7439-96-5	Manganese	20.3			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-05

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	3510			P
7439-96-5	Manganese	122			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-06

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	629			P
7439-96-5	Manganese	476			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-08

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	61.8	U		P
7439-96-5	Manganese	1920			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-07

Level (low/med): LOW Date Received: 11/20/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	3780			P
7439-96-5	Manganese	181			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SA-MW131D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix (soil/water): WATER Lab Sample ID: 0911126-02

Level (low/med): LOW Date Received: 11/19/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	17400			P
7439-96-5	Manganese	229			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-MW07S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-03

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/19/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	57	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW105D

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-01

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/19/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/23/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/23/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	40	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-05

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/20/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	560	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-118SDL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-05

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/20/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 15.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	270	DB
74-84-0	Ethane	23	U
74-85-1	Ethene	23	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-06

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/20/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	29	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-08

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/20/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	110	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-127IDL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-08

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/20/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	47	DB
74-84-0	Ethane	5	U
74-85-1	Ethene	5	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-07

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/20/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	21	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW131D

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-02

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/19/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/23/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/23/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	65	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW131DDL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911126

Matrix: (soil/water) WATER Lab Sample ID: 0911126-02

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/19/09

Extraction: (SepF/Cont/Sonc) Date Extracted:11/24/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 11/24/09

Injection Volume: _____(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	27	DB
74-84-0	Ethane	3	U
74-85-1	Ethene	3	U

FORM I PEST

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

FC-MW07S

0911126-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**6.0**	2.5	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 19:05	EPA 300	D
Nitrate as N	ND	0.05	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 19:05	EPA 300	U
Nitrite as N	ND	0.25	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 19:05	EPA 300	U
Sulfate as SO4	**13**	5.0	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 19:05	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**26.7**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 15:53	EPA 310.2	
Ammonia as N	**0.10**	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:53	EPA 350.1	
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**1.59**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 00:44	SM5310B	

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

SA-MW105D
0911126-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**6.0**	2.5	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:34	EPA 300	D
Nitrate as N	ND	0.05	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:34	EPA 300	U
Nitrite as N	ND	0.25	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:34	EPA 300	U
Sulfate as SO4	**13**	5.0	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:34	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**25.1**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 15:52	EPA 310.2	
Ammonia as N	**0.12**	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:51	EPA 350.1	
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**1.74**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 00:28	SM5310B	

CompuChem
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Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

SA-PZ-118S

0911126-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**12**	2.5	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:06	EPA 300	D
Nitrate as N	ND	0.05	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:06	EPA 300	U
Nitrite as N	ND	0.25	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:06	EPA 300	U
Sulfate as SO4	**6.4**	5.0	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:06	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**31.0**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 15:54	EPA 310.2	
Ammonia as N	**0.63**	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:53	EPA 350.1	
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**2.37**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 00:52	SM5310B	

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

SA-PZ-123I1

0911126-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**11**	2.5	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:22	EPA 300	D
Nitrate as N	ND	0.05	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:22	EPA 300	U
Nitrite as N	ND	0.25	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:22	EPA 300	U
Sulfate as SO4	**14**	5.0	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:22	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**16.8**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 15:55	EPA 310.2	
Ammonia as N	**0.21**	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:54	EPA 350.1	
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**1.52**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 00:59	SM5310B	

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A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

SA-MW-127I

0911126-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**9.2**	2.5	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 20:25	EPA 300	D
Nitrate as N	**0.45**	0.05	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 20:25	EPA 300	D
Nitrite as N	ND	0.25	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 20:25	EPA 300	U
Sulfate as SO4	**12**	5.0	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 20:25	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**33.7**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 16:01	EPA 310.2	
Ammonia as N	ND	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:57	EPA 350.1	U
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**1.00**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 01:45	SM5310B	

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

SA-MW-128D

0911126-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**6.4**	2.5	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:37	EPA 300	D
Nitrate as N	ND	0.05	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:37	EPA 300	U
Nitrite as N	ND	0.25	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:37	EPA 300	U
Sulfate as SO4	**12**	5.0	mg/L	5	9111922	11/20/2009 15:07	11/20/2009 19:37	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**13.6**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 15:56	EPA 310.2	
Ammonia as N	**0.11**	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:55	EPA 350.1	
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**1.90**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 01:23	SM5310B	

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/09-160	
661 ANDERSEN DRIVE FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/09-16(	**Reported:**
PITTSBURGH PA, 15220	Project Manager: ACCOUNTING SUPERVISOR	12/07/2009 10:53

SA-MW131D

0911126-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
				COMPUCHEM					
INORGANIC ANIONS BY IC									
Chloride	**8.5**	2.5	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:50	EPA 300	D
Nitrate as N	**2.6**	0.05	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:50	EPA 300	D
Nitrite as N	ND	0.25	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:50	EPA 300	U
Sulfate as SO4	**19**	5.0	mg/L	5	9111922	11/19/2009 15:07	11/19/2009 18:50	EPA 300	D
WET CHEMISTRY PARAMETERS									
Alkalinity	**40.3**	10.0	mg/L	1	9112041	11/20/2009 17:06	12/02/2009 15:52	EPA 310.2	
Ammonia as N	**0.10**	0.10	mg/L	1	9112036	11/20/2009 16:54	11/24/2009 16:52	EPA 350.1	J
Sulfide, total	ND	1.00	mg/L	1	9112040	11/20/2009 17:04	11/25/2009 09:35	SM4500S-2 F	U
Total Organic Carbon	**1.60**	1.00	mg/L	1	9112042	11/20/2009 17:08	11/26/2009 00:36	SM5310B	

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Client: David Brayack
Tetra Tech , Inc.
5700 Lake Wright Drive
Twin Oaks I, Suite 309
Norfolk, VA 23502

Phone: 757.461.3824

Fax: 757.461.4148

Identifier: 044GK **Date Rec:** 11/19/2009 **Report Date:** 11/25/2009

Client Project #: 112G02045 **Client Project Name:** NWIRP Calverton

Purchase Order #: CTO-160

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Tetra Tech , Inc.**
Project: NWIRP Calverton

MI Project Number: **044GK**
Date Received: 11/19/2009

Sample Information

Client Sample ID:		**SA-MW-131D-111809**	**FC-MW07S-111809**	**SA-PZ-118S-111909**	**SA-PZ-123I1-111909**	**SA-PZ-128D-111909**
Sample Date:		11/18/2009	11/18/2009	11/19/2009	11/19/2009	11/19/2009
Units:		cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst:		ab	ab	ab	ab	ab
Dechlorinating Bacteria						
Dehalococcoides spp.	DHC	**3.00E-01 (J)**	**2.02E+01**	**9.00E-01**	**3.00E-01 (J)**	**2.00E-01 (J)**
Dehalobacter spp.	DHB	**3.18E+03**	**9.84E+03**	**5.17E+02**	**3.35E+03**	**1.35E+02**
Functional Genes						
tceA Reductase	TCE	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
bvcA Reductase	BVC	**2.00E-01 (J)**	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01
Vinyl Chloride Reductase	VCR	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01	<5.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

MICROBIAL INSIGHTS, INC.

2340 Stock Creek Blvd. Rockford, TN 37853-3044
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Tetra Tech , Inc.**
Project: NWIRP Calverton

MI Project Number: **044GK**
Date Received: 11/19/2009

Sample Information

Client Sample ID:	**SA-PZ-127I-111909**
Sample Date:	11/19/2009
Units:	cells/mL
Analyst:	ab

Dechlorinating Bacteria

Dehalococcoides spp.	DHC	**5.60E+00**
Dehalobacter spp.	DHB	**5.08E+04**

Functional Genes

tceA Reductase	TCE	<5.00E-01
bvcA Reductase	BVC	<5.00E-01
Vinyl Chloride Reductase	VCR	<5.00E-01

Legend:
NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

2340 Stock Creek Blvd.
Rockford TN 37853-3044
Phone: (865) 573-8188
Fax: (865) 573-8133
Email: info@microbe.com

Identifier: 044GK **Date Rec:** 11/19/2009 **Report Date:** 11/25/2009

Client Project #: 112G02045 **Client Project Name:** NWIRP Calverton

Purchase Order #: CTO-160

Comments:

APPENDIX H

SURFACE WATER AND SEDIMENT SAMPLE LOG SHEETS

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-124
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-24-09 Time: 0910 Method: Hand Trowel Monitor Reading (ppm): 0	~ 6 inches	Brown Tan	Silty Sand with some organic material (leaves)

COMPOSITE SAMPLE DATA:

Date: NA	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 ounce Jar	1	

OBSERVATIONS / NOTES:

- No stains or odors observed.

MAP:

(see logbook)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-125
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-24-09 Time: 0945 Method: Hand Trowel Monitor Reading (ppm): 0	~6 inches	Black - DK Brown	Silt-Sand-clay and organic material (leaves)

COMPOSITE SAMPLE DATA:

Date: NA	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 ounce Jar	2	—

OBSERVATIONS / NOTES:

No odors observed

MAP:

(see logbook)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-SD-DUP01

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-201
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-24-09 Time: 1010 Method: Hand Trowel Monitor Reading (ppm): 0	~6 inches	Brown-Tan	Silty Sand with organic material (leaves)

COMPOSITE SAMPLE DATA:

Date: NA	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 ounce Jar	1	—

OBSERVATIONS / NOTES:

- No stains or odors observed

MAP:

(see logbook)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-204
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-24-09 Time: 1050 Method: Hand Trowel Monitor Reading (ppm): 0	~ 6 inches	Tan-Brown	Sandy silt with some clay and organic material (leaves)

COMPOSITE SAMPLE DATA:

Date: NA	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 ounce Jar	2	—

OBSERVATIONS / NOTES:

- No stains or odors observed.

MAP:

(see logbook

Circle if Applicable:

MS/MSD (Yes)

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

Sample ID No.: SA-SW-124
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

[X] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3-24-09 / Time: 0900 / Depth: ~10 inches / Method: Direct Grab	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
	clear	5.29	0.127	9.7	0.0	11.11	0.0	210

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- water was clear, cool, with no stains or odors

MAP:

(see logbook)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[X] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SW-12.5
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 3-24-09 Time: 0940 Depth: ~ 6 inches Method: Direct Grab	clear	5.31	0.124	9.3	0.0	11.23	0.0	192

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ML vials	6

OBSERVATIONS / NOTES:

- water was clear, cool, with No stains or odors

MAP:

(see logbook)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	SA-SW-DUP01 (1200 hours)

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[X] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SW-201
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 3-24-09 Time: 1010 Depth: ~ 5 inches Method: Direct Grab	clear	5.40	0.118	8.9	2.0	11.38	0.0	190

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	3

OBSERVATIONS / NOTES:

- water was cool, clear, with No stains or odors.

MAP:

(see logbook)

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP Calverton
Project No.: CTO-160

[X] Stream
[] Spring
[] Pond
[] Lake
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SW-204
Sample Location: Peconic River
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 7-24-09 Time: 1045 Depth: ~ 7 inches Method: Direct Grab	Clear	5.41	0.118	9.1	0.0	11.28	0.0	189

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl	3 x 40 ml vials	Yes

OBSERVATIONS / NOTES:

- water was cool, clear, with no stains or odors

MAP:

(see log book)

Circle if Applicable:

MS/MSD: Yes

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-124-20090917
Sample Location: SA-SD-124
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9-17-09 Time: 1240 Method: Grab Monitor Reading (ppm): 0.0	~ 0.5'	Dark Brown-Gray	Silty sand with clay and leaves, sticks, etc.

COMPOSITE SAMPLE DATA:

Date: NA	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOCs	1- 4oz w/m glass, 4°C	Yes	—

OBSERVATIONS / NOTES:

- Sample location: 270301.86 N
1323834.00 E
(State Plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-125-20090917
Sample Location: SA-SD-125
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9-17-09 Time: 1207 Method: Grab Monitor Reading (ppm): 0.0	~0.5'	Gray-Brown	Silt-Sand with some leaves, sticks, etc.

COMPOSITE SAMPLE DATA:

Date: NA	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOCs	1- 4oz w/m glass, 4°C	Yes	—

OBSERVATIONS / NOTES:

- Sample location: 270734.27 N
1324509.07 E
(State Plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-201-20090917
Sample Location: SA-SD-201
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9-17-09 Time: 1322 Method: Grab Monitor Reading (ppm): 0.0	~0.5 Feet	Brown-Gray	Silt with some fine Sand, leaves and sticks.

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: NA				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOCs	1- 4oz w/m glass, 4°C	Yes (2)	–

OBSERVATIONS / NOTES:

- Sample location: 269788.11N
1323256.46E
(State Plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-SD-DUP01-20090917

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: SA-SD-204-20090917
Sample Location: SA-SD-204
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9-17-09 Time: 1340 Method: Grab Monitor Reading (ppm): 0.0	~ 0.5'	Brown-Gray	Silt-Sand with some leaves and sticks.

COMPOSITE SAMPLE DATA:

Date: NA	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
VOCs	1- 4oz w/m glass, 4°C	Yes (3)	–

OBSERVATIONS / NOTES:

- Sample location: 270897.85 N
1325699.70 E
(State Plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD: Yes

Duplicate ID No.: ___

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[X] Other: River (Peconic)
[ ] QA Sample Type:

Sample ID No.: SA-SW- 124-20090917
Sample Location: SA-SW- 124
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other
Date: 9-17-09								
Time: 1240								
Depth: ~ 1.0'								
Method: Grab	clear	–	–	–	–	–	–	–

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl/4°C	3 - 40ml vials	3

OBSERVATIONS / NOTES:

- water was cool, clear, no odors
- Sample location: 270301.86 N
  1323834.00 E
  (state Plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[X] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[X] Other: River (Peconic)
[ ] QA Sample Type:

Sample ID No.: SA-SW-125-20090917
Sample Location: SA-SW-125
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other
Date: 9-17-09								
Time: 1208								
Depth: ~1.0'								
Method: Grab	clear	—	—	—	—	—	—	—

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl/4°C	3 - 40ml vials	3

OBSERVATIONS / NOTES:

- water was cool, clear, no odors
- Sample location: 270734.27 N
  1324509.07 E
  (state plane datum NAD 1983)

MAP:

NA

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): VAS

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[X] Other: River (Peconic)
[ ] QA Sample Type:

Sample ID No.: SA-SW-201-20090917
Sample Location: SA-SW-201
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other
Date: 9-17-09								
Time: 1322								
Depth: ~1.0'								
Method: Grab	clear	—	—	—	—	—	—	—

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl/4°C	3 - 40ml vials	✓

OBSERVATIONS / NOTES:

- water was clear, cool, No odors
- Sample location: 269788.11 N
  1323256.46 E
  (state plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	SA-SW-DUP01-20090917

Signature(s):

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NWIRP CALVERTON
Project No.: 112G01655-PECONIC RIVER

[ ] Stream
[ ] Spring
[ ] Pond
[ ] Lake
[X] Other: River (Peconic)
[ ] QA Sample Type:

Sample ID No.: SA-SW-204-20090917
Sample Location: SA-SW-204
Sampled By: VAS
C.O.C. No.:

Type of Sample:
[ ] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other
Date: 9-17-09								
Time: 1335								
Depth: ~1.0'								
Method: Grab	clear	—	—	—	—	—	—	—

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCl/4°C	3 - 40ml vials	9

OBSERVATIONS / NOTES:

- water was clear, cool - No odors
- Sample location: 270897.85N
  1325699.70E
  (state plane NAD 1983 datum)

MAP:

NA

Circle if Applicable:

MS/MSD: Yes

Duplicate ID No.: ___

Signature(s):

APPENDIX I

ANALYTICAL RESULTS

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 18:10
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-1
Client ID: CA-PRSC-01
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	J	2	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 18:10
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-1
Client ID: CA-PRSC-01
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		102%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-01

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NWIRP CALVERTON

SDG No.: SB7242

Matrix: (soil/water) WATER

Lab Sample ID: SB7242-1

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2837

Level: (low/med) LOW

Date Received: 12/17/08

% Moisture: not dec. _____

Date Analyzed: 12/22/08

GC Column: RTX-VMS ID: 0.18 (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.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 18:42
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-2
Client ID: CA-PRSC-02-01
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene		5	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	U	5	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane		12	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene		1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	1	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	J	0.3	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.4	1.0	1	1	0.3
79-01-6	Trichloroethene	J	0.9	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 18:42
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-2
Client ID: CA-PRSC-02-01
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		95%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		104%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-02-01

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NWIRP CALVERTON

SDG No.: SB7242

Matrix: (soil/water) WATER

Lab Sample ID: SB7242-2

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2838

Level: (low/med) LOW

Date Received: 12/17/08

% Moisture: not dec. _____

Date Analyzed: 12/22/08

GC Column: RTX-VMS ID: 0.18 (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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 19:14
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-3
Client ID: CA-PRSC-02-02
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	J	5	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	J	0.4	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 19:14
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-3
Client ID: CA-PRSC-02-02
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	J	0.6	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		105%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-02-02

Lab Name: KATAHDIN ANALYTICAL SERVICES — Lab Code: KAS

Project: NWIRP CALVERTON — SDG No.: SB7242

Matrix: (soil/water) WATER — Lab Sample ID: SB7242-3

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: T2839

Level: (low/med) LOW — Date Received: 12/17/08

% Moisture: not dec. _____ — Date Analyzed: 12/22/08

GC Column: RTX-VMS ID: 0.18 (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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 19:46
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-4
Client ID: CA-PRSC-02-03
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	U	5	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 19:46
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-4
Client ID: CA-PRSC-02-03
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		95%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		102%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-02-03

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NWIRP CALVERTON

SDG No.: SB7242

Matrix: (soil/water) WATER

Lab Sample ID: SB7242-4

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2840

Level: (low/med) LOW

Date Received: 12/17/08

% Moisture: not dec. _____

Date Analyzed: 12/22/08

GC Column: RTX-VMS ID: 0.18 (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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 20:18
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-5
Client ID: CA-PRSC-03
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	U	5	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 20:18
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-5
Client ID: CA-PRSC-03
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		109%				

Page 02 of 02 T2841.D

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-03

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NWIRP CALVERTON

SDG No.: SB7242

Matrix: (soil/water) WATER

Lab Sample ID: SB7242-5

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2841

Level: (low/med) LOW

Date Received: 12/17/08

% Moisture: not dec. _____

Date Analyzed: 12/22/08

GC Column: RTX-VMS ID: 0.18 (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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 20:50
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-6
Client ID: CA-PRSC-DUP01
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene		5	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	U	5	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	U	5	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane		12	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene		1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	J	1	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	J	0.3	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	J	0.4	1.0	1	1	0.3
79-01-6	Trichloroethene	J	0.9	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 22-DEC-2008 20:50
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-6
Client ID: CA-PRSC-DUP01
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59338
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		103%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-DUP01

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NWIRP CALVERTON

SDG No.: SB7242

Matrix: (soil/water) WATER

Lab Sample ID: SB7242-6

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2842

Level: (low/med) LOW

Date Received: 12/17/08

% Moisture: not dec. _____

Date Analyzed: 12/22/08

GC Column: RTX-VMS ID: 0.18 (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

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 24-DEC-2008 13:45
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-7
Client ID: CA-PRSC-TB
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59426
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.4
74-87-3	Chloromethane	J	0.4	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.3
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.5
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
76-13-1	Freon-113	U	1	1.0	1	1	0.7
67-64-1	Acetone	J	3	1.0	5	5	2
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.8
75-09-2	Methylene Chloride	J	0.6	1.0	5	5	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.4
1634-04-4	Methyl tert-butyl ether	U	1	1.0	1	1	0.5
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.2
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
78-93-3	2-Butanone	U	5	1.0	5	5	1
67-66-3	Chloroform	U	1	1.0	1	1	0.2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.4
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.4
71-43-2	Benzene	U	1	1.0	1	1	0.3
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.3
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.3
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
108-88-3	Toluene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
591-78-6	2-Hexanone	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.7
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
100-42-5	Styrene	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: NWIRP Calverton
PO No:
Sample Date: 12/16/08
Received Date: 12/17/08
Extraction Date:
Analysis Date: 24-DEC-2008 13:45
Report Date: 12/31/2008
Matrix: WATER
% Solids: NA

Lab ID: SB7242-7
Client ID: CA-PRSC-TB
SDG: SB7242
Extracted by:
Extraction Method: SW846 5030
Analyst: HCG
Analysis Method: SW846 8260B
Lab Prep Batch: WG59426
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.3
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.3
96-12-8	1,2-Dibromo-3-Chloropropane	U	2	1.0	2	2	0.6
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		89%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		107%				

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

CA-PRSC-TB

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: NWIRP CALVERTON

SDG No.: SB7242

Matrix: (soil/water) WATER

Lab Sample ID: SB7242-7

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: T2878

Level: (low/med) LOW

Date Received: 12/17/08

% Moisture: not dec. _____

Date Analyzed: 12/24/08

GC Column: RTX-VMS ID: 0.18 (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.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0759

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0759

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-~~03~~ 01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0459

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	3.3	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	12	
156-59-2	cis-1,2-Dichloroethene	5.0	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-~~03~~ D1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0459

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0559

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0559

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-~~01~~ 03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0659

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-~~01~~ 03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0659

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0159

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0159

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0259

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0259

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0359

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0903188

Matrix: (soil/water) WATER Lab Sample ID: 0903188-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0903188-0359

Level: (low/med) LOW Date Received: 03/27/09

% Moisture: not dec. _____ Date Analyzed: 04/03/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0259

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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	3.1	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	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0259

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
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	3.4	J
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
75-35-4	1,1-Dichloroethene	3.6	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	1.8	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	12	
156-59-2	cis-1,2-Dichloroethene	1.3	J
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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0159

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0202

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0359

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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	2.2	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	1.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0202

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0359

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0203

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0459

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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	2.5	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	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-0203

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0459

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0559

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	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	2.3	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	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0559

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0659

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	1.1	J
75-01-4	Vinyl Chloride	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	2.5	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	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0906202

Matrix: (soil/water) WATER Lab Sample ID: 0906202-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0906202-0659

Level: (low/med) LOW Date Received: 06/27/09

% Moisture: not dec. _____ Date Analyzed: 07/01/09

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
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
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
75-71-8	Dichlorodifluoromethane	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	6.0	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	11	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.2	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	6.9	B
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-07R69

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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	1.7	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-07R69

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	B
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-06RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-06R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/04/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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	0.87	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909124

Matrix: (soil/water) WATER Lab Sample ID: 0909124-06RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909124-06R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/04/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0759

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0759

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-01

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0759

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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	5.91	28	J
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0359

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
75-71-8	Dichlorodifluoromethane	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	4.4	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	9.3	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	1.4	J
156-59-2	cis-1,2-DCE (part of total)	1.4	J
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0359

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	2.4	J
540-59-0	1,2-Dichloroethene (total)	1.4	J
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-02-01

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0359

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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.

CA-PRSC-02-02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0459

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0459

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-02-02

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0459

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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.

CA-PRSC-02-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0559

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-02-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0559

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-02-03

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0559

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0269

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0269

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-03

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0269

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0169

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0169

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-04

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0169

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/20/09

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.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0659

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0659

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CA-PRSC-DUP01

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0911130

Matrix: (soil/water) WATER Lab Sample ID: 0911130-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0911130-0659

Level: (low/med) LOW Date Received: 11/19/09

% Moisture: not dec. _____ Date Analyzed: 11/23/09

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.

ET-MW-01S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0459

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ET-MW-01S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0459

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ET-MW-02S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0659

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ET-MW-02S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0659

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ET-MW-03S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0559

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ET-MW-03S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0559

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-01S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1259

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-01S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1259

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-01I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1359

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-01I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1359

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-04S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0259

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-04S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0259

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-04I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0159

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-04I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0159

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	1.8	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-DUP05

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1559

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-DUP05

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1559

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-05S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1959

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-05S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1959

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-MW-05S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-19

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/10/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.9	JB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-DUP04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0959

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.2	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-DUP04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0959

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	1.9	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-05I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1859

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-05I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1859

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-MW-05I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-18

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/10/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.6	JB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-06S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1159

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-06S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1159

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-07S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0159

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-07S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0159

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-07I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-1159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.6	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-07I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-1159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-08S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1459

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-MW-08S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1459

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0859

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0859

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01SRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-08R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	7.1	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01SRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-08R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0759

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0759

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-07R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-01IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-07R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-04R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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)	18	
95-47-6	o-Xylene (part of total)	4.7	J
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	1.4	J
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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	34	B
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.7	
78-93-3	2-butanone	10	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	1.7	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
108-87-2	Methylcyclohexane	2.5	J
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	6.7	BJ

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-04R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	14	
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	4.8	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	2.0	J
95-50-1	1,2-Dichlorobenzene	5.2	
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.2	J
91-20-3	Naphthalene	41	B
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	23	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02SDL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0459

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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)	16	DJ
95-47-6	o-Xylene (part of total)	25	U
75-71-8	Dichlorodifluoromethane	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	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
75-15-0	Carbon disulfide	25	U
79-20-9	Methyl acetate	25	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	25	U
67-64-1	Acetone	75	D
75-09-2	Methylene Chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
156-60-5	trans-1,2-DCE (part of total	25	U
1634-04-4	Methyl-tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	6.0	DJ
78-93-3	2-butanone	63	U
156-59-2	cis-1,2-Dichloroethene	25	U
156-59-2	cis-1,2-DCE (part of total)	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
110-82-7	Cyclohexane	25	U
56-23-5	Carbon Tetrachloride	25	U
563-58-6	1,1-dichloropropene	25	U
71-43-2	Benzene	25	U
107-06-2	1,2-Dichloroethane	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
108-87-2	Methylcyclohexane	25	U
75-27-4	Bromodichloromethane	25	U
591-78-6	2-hexanone	63	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02SDL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0459

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	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	12	DJ
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropyl Benzene	25	U
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	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
91-20-3	Naphthalene	27	D
540-59-0	1,2-Dichloroethene (total)	25	U
1330-20-7	Xylene (total)	16	DJ

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-MW-02S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-04

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted: 09/18/09

Concentrated Extract Volume: _____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	800	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-MW-02SDL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-04

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	240	D
74-84-0	Ethane	30	U
74-85-1	Ethene	30	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-05R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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)	20	
95-47-6	o-Xylene (part of total)	5.2	
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	1.4	J
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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	39	B
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.9	
78-93-3	2-butanone	8.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	1.7	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
108-87-2	Methylcyclohexane	2.5	J
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-05R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	15	
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropyl Benzene	5.0	
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	1.6	J
95-50-1	1,2-Dichlorobenzene	5.3	
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	41	B
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	25	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-DUP01DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0559

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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)	15	DJ
95-47-6	o-Xylene (part of total)	25	U
75-71-8	Dichlorodifluoromethane	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	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
75-15-0	Carbon disulfide	25	U
79-20-9	Methyl acetate	25	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	25	U
67-64-1	Acetone	61	DJ
75-09-2	Methylene Chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
156-60-5	trans-1,2-DCE (part of total	25	U
1634-04-4	Methyl-tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	6.4	DJ
78-93-3	2-butanone	63	U
156-59-2	cis-1,2-Dichloroethene	25	U
156-59-2	cis-1,2-DCE (part of total)	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
110-82-7	Cyclohexane	25	U
56-23-5	Carbon Tetrachloride	25	U
563-58-6	1,1-dichloropropene	25	U
71-43-2	Benzene	25	U
107-06-2	1,2-Dichloroethane	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
108-87-2	Methylcyclohexane	25	U
75-27-4	Bromodichloromethane	25	U
591-78-6	2-hexanone	63	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-DUP01DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0559

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	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	12	DJ
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropyl Benzene	25	U
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	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
91-20-3	Naphthalene	31	D
540-59-0	1,2-Dichloroethene (total)	25	U
1330-20-7	Xylene (total)	15	DJ

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-DUP01

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-05

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	990	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-DUP01DL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-05

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	340	D
74-84-0	Ethane	30	U
74-85-1	Ethene	30	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0159

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	4.4	J
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
79-20-9	Methyl acetate	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	1.3	J
156-60-5	trans-1,2-DCE (part of total	1.3	J
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	71	
156-59-2	cis-1,2-DCE (part of total)	71	
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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	13	
78-87-5	1,2-Dichloropropane	5.0	U
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0159

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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)	76	
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-01R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-02IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-01RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-01R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-MW-02I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-01

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.4	JB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-03S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0959

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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	2.2	J
78-87-5	1,2-Dichloropropane	5.0	U
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-03S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0959

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-03SRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-09R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	6.0	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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	2.1	J
78-87-5	1,2-Dichloropropane	5.0	U
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-03SRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-09R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-04S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1159

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-04S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1159

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-05S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0359

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-05S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0359

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-MW-05S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-03

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-05I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0259

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-05I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0259

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	1.8	J
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FT-MW-05I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-02

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.3	JB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-06S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0359

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-06S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0359

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-06I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0559

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-06I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0559

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-06IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-05R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-06IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-05RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-05R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-07S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0259

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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	0.81	JB
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-07S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0259

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0459

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0459

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08SRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-04R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08SRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-04RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-04R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	2.0	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0659

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0659

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/15/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-06RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-06R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-MW-08IRE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-06RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-06R59

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0859

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.5	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0859

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-118S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-08

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	380	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-118SDL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-08

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	210	D
74-84-0	Ethane	15	U
74-85-1	Ethene	15	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0959

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.1	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP02

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0959

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-DUP02

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-09

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	450	EB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-DUP02DL

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-09

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	290	D
74-84-0	Ethane	15	U
74-85-1	Ethene	15	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-118I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0759

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-118I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0759

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-118I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-07

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.4	JB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-120S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0859

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-120S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0859

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-122S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1359

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-122S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1359

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-122I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1259

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-122I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1259

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-122D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1659

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.8	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-122D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1659

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0659

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-0659

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-123S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-06

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/03/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	5	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1059

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	6.3	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1059

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-123I1

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-10

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	20	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1159

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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	6.9	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	54	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-123I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1159

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-PZ-123I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-11

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/18/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/18/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	32	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-124

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0569

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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	1.7	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	17	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-124

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0569

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0369

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-PZ-125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0369

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-126S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1959

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-126S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1959

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-126I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1859

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-126I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1859

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-126D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1759

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-126D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1759

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1259

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1259

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	3.4	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-127S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-12

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.3	JB
74-84-0	Ethane	0.2	J
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1359

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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	20	
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	250	E
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	61	
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1359

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	3.8	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	2.7	JB
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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-127I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-13

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	35	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127IDL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-13RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-13D59

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
75-35-4	1,1-Dichloroethene	19	D
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	270	D
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	64	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
110-75-8	2-chloroethyl vinyl ether	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
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127IDL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-13RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-13D59

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/25/09

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
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	5.0	DJ
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	4.8	DJ
91-20-3	Naphthalene	8.3	DJ
1330-20-7	Xylene (total)	10	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1459

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-127D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1459

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-127D

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-14

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	0.3	JB
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1559

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1559

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-128S

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-15

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	2	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1759

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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	2.5	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	33	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.4	J
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1759

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-128I

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-17

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	27	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1659

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.9	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909026-1659

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SA-MW-128D

Lab Name: COMPUCHEM Contract: RSK 175

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909026

Matrix: (soil/water) WATER Lab Sample ID: 0909026-16

Sample wt/vol: 0.500 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/05/09

Extraction: (SepF/Cont/Sonc) Date Extracted:09/17/09

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/17/09

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-82-8	Methane	13	B
74-84-0	Ethane	2	U
74-85-1	Ethene	2	U

FORM I PEST

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-2059

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	3.1	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP03

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-2059

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-129S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1559

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	1.4	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-129S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1559

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-129I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-21

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-2159

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.8	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	2.3	J
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	6.9	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-129I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-21

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-2159

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	2.9	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-129D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0259

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-129D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0259

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-130S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-1059

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	9.0	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-130S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-1059

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-130I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0959

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	7.6	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-130I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0959

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-131S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.2	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-131S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-131I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0859

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	8.7	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-131I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0859

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-131D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
75-71-8	Dichlorodifluoromethane	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	1.5	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	11	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	15	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-131D

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/24/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	2.1	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-132S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	2.9	J
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-132S

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-132I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.4	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-MW-132I

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP06

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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	1.1	J
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.1	
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-DUP06

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909078

Matrix: (soil/water) WATER Lab Sample ID: 0909078-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909078-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0869

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0869

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0869

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-310-1015

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0869

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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-310-2429

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	9.0	J
75-09-2	Methylene Chloride	3.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-2429

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-2429

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-310-2429

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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-310-4853

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-1069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	6.7	J
75-09-2	Methylene Chloride	3.4	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-4853

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-1069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-310-4853

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-1069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-310-4853

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-1069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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-311-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0469

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	1.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-311-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0469

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-311-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0469

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-311-1015

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0469

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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-311-2328

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0569

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	2.1	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-311-2328

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0569

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-311-2328

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0569

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-311-2328

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0569

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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-311-4651

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0669

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	17	
74-88-4	Iodomethane	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	5.1	J
75-09-2	Methylene Chloride	2.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	200	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	54	
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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-311-4651

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0669

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-311-4651

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0669

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-311-4651

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0669

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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-312-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-312-0712

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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-312-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-312-2025

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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	8.43	5.3	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-4146

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl Chloride	25	U
74-83-9	Bromomethane	25	U
75-35-4	1,1-Dichloroethene	55	
74-88-4	Iodomethane	25	U
75-15-0	Carbon disulfide	25	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	25	U
67-64-1	Acetone	63	U
75-09-2	Methylene Chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
107-13-1	Acrylonitrile	250	U
1634-04-4	Methyl-tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	1000	E
594-20-7	2,2-Dichloropropane	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
78-93-3	2-butanone	63	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	280	
56-23-5	Carbon Tetrachloride	25	U
563-58-6	1,1-dichloropropene	25	U
71-43-2	Benzene	25	U
107-06-2	1,2-Dichloroethane	25	U
79-01-6	Trichloroethene	25	U
78-87-5	1,2-Dichloropropane	25	U
74-95-3	Dibromomethane	25	U
80-62-6	Methylmethacrylate	250	U
75-27-4	Bromodichloromethane	25	U
110-75-8	2-chloroethyl vinyl ether	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-4146

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	25	U
142-28-9	1,3-Dichloropropane	25	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
630-20-6	1,1,1,2-Tetrachloroethane	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	25	U
108-86-1	Bromobenzene	25	U
96-18-4	1,2,3-Trichloropropane	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
103-65-1	n-Propyl Benzene	25	U
95-49-8	2-Chlorotoluene	25	U
106-43-4	4-Chlorotoluene	25	U
108-67-8	1,3,5-Trimethyl Benzene	25	U
98-06-6	tert-Butyl Benzene	25	U
95-63-6	1,2,4-Trimethyl Benzene	25	U
135-98-8	sec-Butyl Benzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
99-87-6	p-Isopropyl Toluene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
104-51-8	n-Butyl Benzene	25	U
96-12-8	1,2-Dibromo-3-Chloropropane	25	U
120-82-1	1,2,4-Trichlorobenzene	25	U
87-68-3	Hexachlorobutadiene	25	U
91-20-3	Naphthalene	25	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-312-4146

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	25	U
1330-20-7	Xylene (total)	25	U
110-54-3	n-Hexane	25	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-312-4146

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0359

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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-31
2-4146DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-03D59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	36	U
74-87-3	Chloromethane	36	U
75-01-4	Vinyl Chloride	36	U
74-83-9	Bromomethane	36	U
75-35-4	1,1-Dichloroethene	67	D
74-88-4	Iodomethane	36	U
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
107-13-1	Acrylonitrile	360	U
1634-04-4	Methyl-tert-butyl ether	36	U
75-34-3	1,1-Dichloroethane	1200	D
594-20-7	2,2-Dichloropropane	36	U
156-59-2	cis-1,2-Dichloroethene	36	U
78-93-3	2-butanone	89	U
74-97-5	Bromochloromethane	36	U
67-66-3	Chloroform	36	U
71-55-6	1,1,1-Trichloroethane	310	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
74-95-3	Dibromomethane	36	U
80-62-6	Methylmethacrylate	360	U
75-27-4	Bromodichloromethane	36	U
110-75-8	2-chloroethyl vinyl ether	36	U
10061-01-5	cis-1,3-Dichloropropene	36	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
2-4146DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-03D59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
108-10-1	4-Methyl-2-pentanone	89	U
108-88-3	Toluene	36	U
10061-02-6	trans-1,3-Dichloropropene	36	U
79-00-5	1,1,2-Trichloroethane	36	U
127-18-4	Tetrachloroethene	36	U
142-28-9	1,3-Dichloropropane	36	U
124-48-1	Dibromochloromethane	36	U
106-93-4	1,2-Dibromoethane	36	U
108-90-7	Chlorobenzene	36	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	36	U
96-18-4	1,2,3-Trichloropropane	36	U
79-34-5	1,1,2,2-Tetrachloroethane	36	U
103-65-1	n-Propyl Benzene	36	U
95-49-8	2-Chlorotoluene	36	U
106-43-4	4-Chlorotoluene	36	U
108-67-8	1,3,5-Trimethyl Benzene	36	U
98-06-6	tert-Butyl Benzene	36	U
95-63-6	1,2,4-Trimethyl Benzene	36	U
135-98-8	sec-Butyl Benzene	36	U
541-73-1	1,3-Dichlorobenzene	36	U
106-46-7	1,4-Dichlorobenzene	36	U
99-87-6	p-Isopropyl Toluene	36	U
95-50-1	1,2-Dichlorobenzene	36	U
104-51-8	n-Butyl Benzene	36	U
96-12-8	1,2-Dibromo-3-Chloropropane	36	U
120-82-1	1,2,4-Trichlorobenzene	36	U
87-68-3	Hexachlorobutadiene	36	U
91-20-3	Naphthalene	36	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
2-4146DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-03D59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
87-61-6	1,2,3-Trichlorobenzene	36	U
1330-20-7	Xylene (total)	36	U
110-54-3	n-Hexane	36	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-31
2-4146DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-03RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-03D59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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-313-0914

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-0914

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-0914

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-313-0914

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-19

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1969

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	13.87	5.1	NJ
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-21

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	4.8	J
75-09-2	Methylene Chloride	1.1	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-21

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-21

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-313-2025

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-21

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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-313-4247

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-22

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	1.3	J
74-88-4	Iodomethane	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	0.95	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	12	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.2	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-4247

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-22

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-313-4247

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-22

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-313-4247

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-22

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/06/09

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.	LABORATORY ARTIFACT	13.86	5.9	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-DUP07

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0369

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	1.2	J
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	13	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-DUP07

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0369

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-DUP07

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0369

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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-314-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-314-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.75	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-314-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-314-0712

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0459

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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-314-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-314-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-314-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-314-2025

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-05

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0559

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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-314-3944

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	3.9	J
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	94	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	12	
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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-314-3944

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.74	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	1.9	J
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-314-3944

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-314-3944

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0659

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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-315-0813

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-315-0813

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-315-0813

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-315-0813

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0759

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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-31
5-0813RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-07R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
5-0813RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-07R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	1.2	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	2.3	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
5-0813RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-07R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
87-61-6	1,2,3-Trichlorobenzene	1.3	J
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-31
5-0813RE

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-07RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-07R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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-315-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0859

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-315-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0859

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-315-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0859

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-315-2025

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0859

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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-31
5-2025RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-08R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	7.9	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
5-2025RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-08R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	1.5	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.0	J
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	3.9	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
5-2025RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-08R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
87-61-6	1,2,3-Trichlorobenzene	2.7	J
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-31
5-2025RE

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-08RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-08R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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-315-4045

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0959

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	3.7	J
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	62	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.6	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-315-4045

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0959

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-315-4045

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0959

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-315-4045

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-0959

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/30/09

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-31
5-4045RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-09R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	4.1	J
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	53	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	2.2	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
5-4045RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-09R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	1.0	J

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
5-4045RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-09R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-31
5-4045RE

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-09RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-09R59

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

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-316-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1469

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-316-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1469

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-316-0712

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1469

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-316-0712

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1469

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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-316-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1569

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-316-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1569

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-316-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1569

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-316-2025

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-15

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1569

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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-316-3237

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1669

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	12	
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	220	E
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	51	
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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-316-3237

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1669

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.3	J
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-316-3237

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1669

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-316-3237

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1669

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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. 1066-40-6	SILANOL, TRIMETHYL-	9.20	10	NJ
2.	LABORATORY ARTIFACT	15.27	11	J
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
6-3237DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-16D59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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)	17	U
95-47-6	o-Xylene (part of total)	8.4	U
75-71-8	Dichlorodifluoromethane	8.4	U
74-87-3	Chloromethane	8.4	U
75-01-4	Vinyl Chloride	8.4	U
74-83-9	Bromomethane	8.4	U
75-35-4	1,1-Dichloroethene	19	D
74-88-4	Iodomethane	8.4	U
75-15-0	Carbon disulfide	8.4	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	8.4	U
67-64-1	Acetone	12	DJ
75-09-2	Methylene Chloride	8.4	U
156-60-5	trans-1,2-Dichloroethene	8.4	U
107-13-1	Acrylonitrile	84	U
1634-04-4	Methyl-tert-butyl ether	8.4	U
75-34-3	1,1-Dichloroethane	240	D
594-20-7	2,2-Dichloropropane	8.4	U
156-59-2	cis-1,2-Dichloroethene	8.4	U
78-93-3	2-butanone	21	U
74-97-5	Bromochloromethane	8.4	U
67-66-3	Chloroform	8.4	U
71-55-6	1,1,1-Trichloroethane	55	D
56-23-5	Carbon Tetrachloride	8.4	U
563-58-6	1,1-dichloropropene	8.4	U
71-43-2	Benzene	8.4	U
107-06-2	1,2-Dichloroethane	8.4	U
79-01-6	Trichloroethene	8.4	U
78-87-5	1,2-Dichloropropane	8.4	U
74-95-3	Dibromomethane	8.4	U
80-62-6	Methylmethacrylate	84	U
75-27-4	Bromodichloromethane	8.4	U
110-75-8	2-chloroethyl vinyl ether	8.4	U
10061-01-5	cis-1,3-Dichloropropene	8.4	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
6-3237DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-16D59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	21	U
108-88-3	Toluene	8.4	U
10061-02-6	trans-1,3-Dichloropropene	8.4	U
79-00-5	1,1,2-Trichloroethane	8.4	U
127-18-4	Tetrachloroethene	8.4	U
142-28-9	1,3-Dichloropropane	8.4	U
124-48-1	Dibromochloromethane	8.4	U
106-93-4	1,2-Dibromoethane	8.4	U
108-90-7	Chlorobenzene	8.4	U
630-20-6	1,1,1,2-Tetrachloroethane	8.4	U
100-41-4	Ethylbenzene	8.4	U
100-42-5	Styrene	8.4	U
75-25-2	Bromoform	8.4	U
98-82-8	Isopropyl Benzene	8.4	U
108-86-1	Bromobenzene	8.4	U
96-18-4	1,2,3-Trichloropropane	8.4	U
79-34-5	1,1,2,2-Tetrachloroethane	8.4	U
103-65-1	n-Propyl Benzene	8.4	U
95-49-8	2-Chlorotoluene	8.4	U
106-43-4	4-Chlorotoluene	8.4	U
108-67-8	1,3,5-Trimethyl Benzene	8.4	U
98-06-6	tert-Butyl Benzene	8.4	U
95-63-6	1,2,4-Trimethyl Benzene	8.4	U
135-98-8	sec-Butyl Benzene	8.4	U
541-73-1	1,3-Dichlorobenzene	8.4	U
106-46-7	1,4-Dichlorobenzene	8.4	U
99-87-6	p-Isopropyl Toluene	8.4	U
95-50-1	1,2-Dichlorobenzene	8.4	U
104-51-8	n-Butyl Benzene	8.4	U
96-12-8	1,2-Dibromo-3-Chloropropane	8.4	U
120-82-1	1,2,4-Trichlorobenzene	3.1	DJ
87-68-3	Hexachlorobutadiene	8.4	U
91-20-3	Naphthalene	8.4	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-31
6-3237DL

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-16D59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
87-61-6	1,2,3-Trichlorobenzene	8.4	U
1330-20-7	Xylene (total)	8.4	U
110-54-3	n-Hexane	8.4	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-31
6-3237DL

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-16RE1

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-16D59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/09/09

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.7

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-317-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1769

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-317-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1769

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-317-1015

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1769

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-317-1015

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-17

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1769

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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-317-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1869

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-317-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1869

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-317-2025

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1869

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-317-2025

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-18

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1869

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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-317-39.544.5

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	5.0	J
75-09-2	Methylene Chloride	0.90	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	6.3	
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TW-317-39.544.5

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TW-317-39.544.5

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TW-317-39.544.5

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-20

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-2069

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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-SD-124

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0359

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 76 Date Analyzed: 10/01/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	21	U
74-87-3	Chloromethane	21	U
75-01-4	Vinyl Chloride	21	U
74-83-9	Bromomethane	21	U
75-00-3	Chloroethane	21	U
75-69-4	Trichlorofluoromethane	21	U
75-35-4	1,1-Dichloroethene	21	U
75-15-0	Carbon disulfide	21	U
79-20-9	Methyl acetate	21	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	21	U
67-64-1	Acetone	310	
75-09-2	Methylene Chloride	21	U
156-60-5	trans-1,2-Dichloroethene	21	U
156-60-5	trans-1,2-DCE (part of total	21	U
1634-04-4	Methyl-tert-butyl ether	21	U
75-34-3	1,1-Dichloroethane	21	U
78-93-3	2-butanone	52	U
156-59-2	cis-1,2-Dichloroethene	21	U
156-59-2	cis-1,2-DCE (part of total)	21	U
67-66-3	Chloroform	21	U
71-55-6	1,1,1-Trichloroethane	21	U
110-82-7	Cyclohexane	21	U
56-23-5	Carbon Tetrachloride	21	U
563-58-6	1,1-dichloropropene	21	U
71-43-2	Benzene	21	U
107-06-2	1,2-Dichloroethane	21	U
79-01-6	Trichloroethene	21	U
78-87-5	1,2-Dichloropropane	21	U
108-87-2	Methylcyclohexane	21	U
75-27-4	Bromodichloromethane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
108-10-1	4-Methyl-2-pentanone	52	U
108-88-3	Toluene	21	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-124

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0359

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 76 Date Analyzed: 10/01/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	21	U
79-00-5	1,1,2-Trichloroethane	21	U
591-78-6	2-hexanone	52	U
127-18-4	Tetrachloroethene	21	U
124-48-1	Dibromochloromethane	21	U
106-93-4	1,2-Dibromoethane	21	U
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
100-42-5	Styrene	21	U
75-25-2	Bromoform	21	U
98-82-8	Isopropyl Benzene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
541-73-1	1,3-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
95-50-1	1,2-Dichlorobenzene	21	U
96-12-8	1,2-Dibromo-3-Chloropropane	21	U
120-82-1	1,2,4-Trichlorobenzene	21	U
91-20-3	Naphthalene	21	U
540-59-0	1,2-Dichloroethene (total)	21	U
1330-20-7	Xylene (total)	21	U
108-38-3	m,p-Xylene (part of total)	42	U
95-47-6	o-Xylene (part of total)	21	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-124RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-03RE1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-03R59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 76 Date Analyzed: 10/08/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	21	U
74-87-3	Chloromethane	21	U
75-01-4	Vinyl Chloride	21	U
74-83-9	Bromomethane	21	U
75-00-3	Chloroethane	21	U
75-69-4	Trichlorofluoromethane	21	U
75-35-4	1,1-Dichloroethene	21	U
75-15-0	Carbon disulfide	21	U
79-20-9	Methyl acetate	21	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	21	U
67-64-1	Acetone	120	
75-09-2	Methylene Chloride	21	U
156-60-5	trans-1,2-Dichloroethene	21	U
156-60-5	trans-1,2-DCE (part of total	21	U
1634-04-4	Methyl-tert-butyl ether	21	U
75-34-3	1,1-Dichloroethane	21	U
78-93-3	2-butanone	52	U
156-59-2	cis-1,2-Dichloroethene	21	U
156-59-2	cis-1,2-DCE (part of total)	21	U
67-66-3	Chloroform	21	U
71-55-6	1,1,1-Trichloroethane	21	U
110-82-7	Cyclohexane	21	U
56-23-5	Carbon Tetrachloride	21	U
563-58-6	1,1-dichloropropene	21	U
71-43-2	Benzene	21	U
107-06-2	1,2-Dichloroethane	21	U
79-01-6	Trichloroethene	21	U
78-87-5	1,2-Dichloropropane	21	U
108-87-2	Methylcyclohexane	21	U
75-27-4	Bromodichloromethane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
108-10-1	4-Methyl-2-pentanone	52	U
108-88-3	Toluene	21	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-124RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-03RE1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-03R59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 76 Date Analyzed: 10/08/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	21	U
79-00-5	1,1,2-Trichloroethane	21	U
591-78-6	2-hexanone	52	U
127-18-4	Tetrachloroethene	21	U
124-48-1	Dibromochloromethane	21	U
106-93-4	1,2-Dibromoethane	21	U
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
100-42-5	Styrene	21	U
75-25-2	Bromoform	21	U
98-82-8	Isopropyl Benzene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
541-73-1	1,3-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
95-50-1	1,2-Dichlorobenzene	21	U
96-12-8	1,2-Dibromo-3-Chloropropane	21	U
120-82-1	1,2,4-Trichlorobenzene	21	U
91-20-3	Naphthalene	21	U
540-59-0	1,2-Dichloroethene (total)	21	U
1330-20-7	Xylene (total)	21	U
108-38-3	m,p-Xylene (part of total)	42	U
95-47-6	o-Xylene (part of total)	21	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0259

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 36 Date Analyzed: 10/01/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	7.8	U
74-87-3	Chloromethane	7.8	U
75-01-4	Vinyl Chloride	7.8	U
74-83-9	Bromomethane	7.8	U
75-00-3	Chloroethane	7.8	U
75-69-4	Trichlorofluoromethane	7.8	U
75-35-4	1,1-Dichloroethene	7.8	U
75-15-0	Carbon disulfide	7.8	U
79-20-9	Methyl acetate	7.8	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	7.8	U
67-64-1	Acetone	20	U
75-09-2	Methylene Chloride	7.8	U
156-60-5	trans-1,2-Dichloroethene	7.8	U
156-60-5	trans-1,2-DCE (part of total	7.8	U
1634-04-4	Methyl-tert-butyl ether	7.8	U
75-34-3	1,1-Dichloroethane	7.8	U
78-93-3	2-butanone	20	U
156-59-2	cis-1,2-Dichloroethene	7.8	U
156-59-2	cis-1,2-DCE (part of total)	7.8	U
67-66-3	Chloroform	7.8	U
71-55-6	1,1,1-Trichloroethane	7.8	U
110-82-7	Cyclohexane	7.8	U
56-23-5	Carbon Tetrachloride	7.8	U
563-58-6	1,1-dichloropropene	7.8	U
71-43-2	Benzene	7.8	U
107-06-2	1,2-Dichloroethane	7.8	U
79-01-6	Trichloroethene	7.8	U
78-87-5	1,2-Dichloropropane	7.8	U
108-87-2	Methylcyclohexane	7.8	U
75-27-4	Bromodichloromethane	7.8	U
10061-01-5	cis-1,3-Dichloropropene	7.8	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	7.8	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0259

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 36 Date Analyzed: 10/01/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	7.8	U
79-00-5	1,1,2-Trichloroethane	7.8	U
591-78-6	2-hexanone	20	U
127-18-4	Tetrachloroethene	7.8	U
124-48-1	Dibromochloromethane	7.8	U
106-93-4	1,2-Dibromoethane	7.8	U
108-90-7	Chlorobenzene	7.8	U
100-41-4	Ethylbenzene	7.8	U
100-42-5	Styrene	7.8	U
75-25-2	Bromoform	7.8	U
98-82-8	Isopropyl Benzene	7.8	U
79-34-5	1,1,2,2-Tetrachloroethane	7.8	U
541-73-1	1,3-Dichlorobenzene	7.8	U
106-46-7	1,4-Dichlorobenzene	7.8	U
95-50-1	1,2-Dichlorobenzene	7.8	U
96-12-8	1,2-Dibromo-3-Chloropropane	7.8	U
120-82-1	1,2,4-Trichlorobenzene	7.8	U
91-20-3	Naphthalene	7.8	U
540-59-0	1,2-Dichloroethene (total)	7.8	U
1330-20-7	Xylene (total)	7.8	U
108-38-3	m,p-Xylene (part of total)	16	U
95-47-6	o-Xylene (part of total)	7.8	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0459

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 25 Date Analyzed: 10/01/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl Chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
75-15-0	Carbon disulfide	6.7	U
79-20-9	Methyl acetate	6.7	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	6.7	U
67-64-1	Acetone	17	U
75-09-2	Methylene Chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
156-60-5	trans-1,2-DCE (part of total	6.7	U
1634-04-4	Methyl-tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
78-93-3	2-butanone	17	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
156-59-2	cis-1,2-DCE (part of total)	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
110-82-7	Cyclohexane	6.7	U
56-23-5	Carbon Tetrachloride	6.7	U
563-58-6	1,1-dichloropropene	6.7	U
71-43-2	Benzene	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
108-87-2	Methylcyclohexane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	17	U
108-88-3	Toluene	6.7	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0459

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 25 Date Analyzed: 10/01/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
591-78-6	2-hexanone	17	U
127-18-4	Tetrachloroethene	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropyl Benzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-Chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
91-20-3	Naphthalene	6.7	U
540-59-0	1,2-Dichloroethene (total)	6.7	U
1330-20-7	Xylene (total)	6.7	U
108-38-3	m,p-Xylene (part of total)	13	U
95-47-6	o-Xylene (part of total)	6.7	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-201RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-04RE1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-04R59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 25 Date Analyzed: 10/08/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	6.7	U
74-87-3	Chloromethane	6.7	U
75-01-4	Vinyl Chloride	6.7	U
74-83-9	Bromomethane	6.7	U
75-00-3	Chloroethane	6.7	U
75-69-4	Trichlorofluoromethane	6.7	U
75-35-4	1,1-Dichloroethene	6.7	U
75-15-0	Carbon disulfide	6.7	U
79-20-9	Methyl acetate	6.7	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	6.7	U
67-64-1	Acetone	17	U
75-09-2	Methylene Chloride	6.7	U
156-60-5	trans-1,2-Dichloroethene	6.7	U
156-60-5	trans-1,2-DCE (part of total	6.7	U
1634-04-4	Methyl-tert-butyl ether	6.7	U
75-34-3	1,1-Dichloroethane	6.7	U
78-93-3	2-butanone	17	U
156-59-2	cis-1,2-Dichloroethene	6.7	U
156-59-2	cis-1,2-DCE (part of total)	6.7	U
67-66-3	Chloroform	6.7	U
71-55-6	1,1,1-Trichloroethane	6.7	U
110-82-7	Cyclohexane	6.7	U
56-23-5	Carbon Tetrachloride	6.7	U
563-58-6	1,1-dichloropropene	6.7	U
71-43-2	Benzene	6.7	U
107-06-2	1,2-Dichloroethane	6.7	U
79-01-6	Trichloroethene	6.7	U
78-87-5	1,2-Dichloropropane	6.7	U
108-87-2	Methylcyclohexane	6.7	U
75-27-4	Bromodichloromethane	6.7	U
10061-01-5	cis-1,3-Dichloropropene	6.7	U
108-10-1	4-Methyl-2-pentanone	17	U
108-88-3	Toluene	6.7	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-201RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-04RE1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-04R59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 25 Date Analyzed: 10/08/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	6.7	U
79-00-5	1,1,2-Trichloroethane	6.7	U
591-78-6	2-hexanone	17	U
127-18-4	Tetrachloroethene	6.7	U
124-48-1	Dibromochloromethane	6.7	U
106-93-4	1,2-Dibromoethane	6.7	U
108-90-7	Chlorobenzene	6.7	U
100-41-4	Ethylbenzene	6.7	U
100-42-5	Styrene	6.7	U
75-25-2	Bromoform	6.7	U
98-82-8	Isopropyl Benzene	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	6.7	U
541-73-1	1,3-Dichlorobenzene	6.7	U
106-46-7	1,4-Dichlorobenzene	6.7	U
95-50-1	1,2-Dichlorobenzene	6.7	U
96-12-8	1,2-Dibromo-3-Chloropropane	6.7	U
120-82-1	1,2,4-Trichlorobenzene	6.7	U
91-20-3	Naphthalene	6.7	U
540-59-0	1,2-Dichloroethene (total)	6.7	U
1330-20-7	Xylene (total)	6.7	U
108-38-3	m,p-Xylene (part of total)	13	U
95-47-6	o-Xylene (part of total)	6.7	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-204

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0159

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 27 Date Analyzed: 10/01/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	6.8	U
74-87-3	Chloromethane	6.8	U
75-01-4	Vinyl Chloride	6.8	U
74-83-9	Bromomethane	6.8	U
75-00-3	Chloroethane	6.8	U
75-69-4	Trichlorofluoromethane	6.8	U
75-35-4	1,1-Dichloroethene	6.8	U
75-15-0	Carbon disulfide	6.8	U
79-20-9	Methyl acetate	6.8	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	6.8	U
67-64-1	Acetone	17	U
75-09-2	Methylene Chloride	6.8	U
156-60-5	trans-1,2-Dichloroethene	6.8	U
156-60-5	trans-1,2-DCE (part of total	6.8	U
1634-04-4	Methyl-tert-butyl ether	6.8	U
75-34-3	1,1-Dichloroethane	6.8	U
78-93-3	2-butanone	17	U
156-59-2	cis-1,2-Dichloroethene	6.8	U
156-59-2	cis-1,2-DCE (part of total)	6.8	U
67-66-3	Chloroform	6.8	U
71-55-6	1,1,1-Trichloroethane	6.8	U
110-82-7	Cyclohexane	6.8	U
56-23-5	Carbon Tetrachloride	6.8	U
563-58-6	1,1-dichloropropene	6.8	U
71-43-2	Benzene	6.8	U
107-06-2	1,2-Dichloroethane	6.8	U
79-01-6	Trichloroethene	6.8	U
78-87-5	1,2-Dichloropropane	6.8	U
108-87-2	Methylcyclohexane	6.8	U
75-27-4	Bromodichloromethane	6.8	U
10061-01-5	cis-1,3-Dichloropropene	6.8	U
108-10-1	4-Methyl-2-pentanone	17	U
108-88-3	Toluene	6.8	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-204

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0159

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 27 Date Analyzed: 10/01/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	6.8	U
79-00-5	1,1,2-Trichloroethane	6.8	U
591-78-6	2-hexanone	17	U
127-18-4	Tetrachloroethene	6.8	U
124-48-1	Dibromochloromethane	6.8	U
106-93-4	1,2-Dibromoethane	6.8	U
108-90-7	Chlorobenzene	6.8	U
100-41-4	Ethylbenzene	6.8	U
100-42-5	Styrene	6.8	U
75-25-2	Bromoform	6.8	U
98-82-8	Isopropyl Benzene	6.8	U
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U
541-73-1	1,3-Dichlorobenzene	6.8	U
106-46-7	1,4-Dichlorobenzene	6.8	U
95-50-1	1,2-Dichlorobenzene	6.8	U
96-12-8	1,2-Dibromo-3-Chloropropane	6.8	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
91-20-3	Naphthalene	6.8	U
540-59-0	1,2-Dichloroethene (total)	6.8	U
1330-20-7	Xylene (total)	6.8	U
108-38-3	m,p-Xylene (part of total)	14	U
95-47-6	o-Xylene (part of total)	6.8	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0559

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 21 Date Analyzed: 10/01/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl Chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
75-15-0	Carbon disulfide	6.3	U
79-20-9	Methyl acetate	6.3	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	6.3	U
67-64-1	Acetone	16	U
75-09-2	Methylene Chloride	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
156-60-5	trans-1,2-DCE (part of total	6.3	U
1634-04-4	Methyl-tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
78-93-3	2-butanone	16	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
156-59-2	cis-1,2-DCE (part of total)	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon Tetrachloride	6.3	U
563-58-6	1,1-dichloropropene	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
79-01-6	Trichloroethene	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
108-87-2	Methylcyclohexane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-pentanone	16	U
108-88-3	Toluene	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-0559

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 21 Date Analyzed: 10/01/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
591-78-6	2-hexanone	16	U
127-18-4	Tetrachloroethene	6.3	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropyl Benzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-Chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
91-20-3	Naphthalene	6.3	U
540-59-0	1,2-Dichloroethene (total)	6.3	U
1330-20-7	Xylene (total)	6.3	U
108-38-3	m,p-Xylene (part of total)	13	U
95-47-6	o-Xylene (part of total)	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-DUP01RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-05RE1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-05R59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 21 Date Analyzed: 10/08/09

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/KG	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl Chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	6.3	U
75-35-4	1,1-Dichloroethene	6.3	U
75-15-0	Carbon disulfide	6.3	U
79-20-9	Methyl acetate	6.3	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	6.3	U
67-64-1	Acetone	16	U
75-09-2	Methylene Chloride	6.3	U
156-60-5	trans-1,2-Dichloroethene	6.3	U
156-60-5	trans-1,2-DCE (part of total	6.3	U
1634-04-4	Methyl-tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
78-93-3	2-butanone	16	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
156-59-2	cis-1,2-DCE (part of total)	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon Tetrachloride	6.3	U
563-58-6	1,1-dichloropropene	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
79-01-6	Trichloroethene	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
108-87-2	Methylcyclohexane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-pentanone	16	U
108-88-3	Toluene	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SD-DUP01RE

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909145

Matrix: (soil/water) SOIL Lab Sample ID: 0909145-05RE1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0909145-05R59

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. 21 Date Analyzed: 10/08/09

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/KG	Q
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
591-78-6	2-hexanone	16	U
127-18-4	Tetrachloroethene	6.3	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropyl Benzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3	U
96-12-8	1,2-Dibromo-3-Chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
91-20-3	Naphthalene	6.3	U
540-59-0	1,2-Dichloroethene (total)	6.3	U
1330-20-7	Xylene (total)	6.3	U
108-38-3	m,p-Xylene (part of total)	13	U
95-47-6	o-Xylene (part of total)	6.3	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-124

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0469

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-124

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-04

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0469

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0269

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-125

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0269

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0669

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-201

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-06

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0669

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-204

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0169

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-204

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0169

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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	1.0	JB
540-59-0	1,2-Dichloroethene (total)	5.0	U
1330-20-7	Xylene (total)	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0769

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-SW-DUP01

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909144

Matrix: (soil/water) WATER Lab Sample ID: 0909144-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909144-0769

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

SA-SB-131I-200909-4041

0909023-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
***** DEFAULT GENERAL METHOD *****								
% Solids	**77.2**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**2304**	129.9	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 16:51	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

SA-SB-131I-200909-4142

0909023-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
***** DEFAULT GENERAL METHOD *****								
% Solids	**72.8**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**3215**	137.0	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 17:12	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
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Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

SA-SB-132I-200909-3738

0909023-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
***** DEFAULT GENERAL METHOD *****								
% Solids	**71.3**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**5049**	140.8	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 17:20	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

SA-SB-132S-200909-1416
0909023-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
***** DEFAULT GENERAL METHOD *****								
% Solids	**75.9**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**1818**	131.6	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 17:30	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
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Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

SA-SB-130I-200909-4446

0909023-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
***** DEFAULT GENERAL METHOD *****								
% Solids	**80.4**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**1640**	125.0	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 17:48	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

SA-SB-130S-200909-1921

0909023-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
***** DEFAULT GENERAL METHOD *****								
% Solids	**77.6**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**5101**	128.2	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 17:54	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

TETRA TECH	Project: CTO-160/112G01655/N62472-03-D-0057/1045370	
661 ANDERSEN DRIVE, FOSTER PLAZA 7	Project Number: CTO-160/112G01655/N62472-03-D-0057/10453	**Reported:**
PITTSBURGH PA, 15220	Project Manager: TOBRENA SKEEN	09/21/2009 09:32

FC-SB-07I-200909-5456

0909023-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
***** DEFAULT GENERAL METHOD *****								
% Solids	**78.0**	0.0	% by Weight	1	9090923	09/15/2009 11:50	09/17/2009 10:37	% Calculation
WET CHEMISTRY PARAMETERS								
Total Organic Carbon	**877.9**	128.2	mg/kg dry	1	9090922	09/15/2009 09:00	09/16/2009 19:24	LLOYD KAHN

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-RB01-20090902

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1059

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	9.1	J
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-RB01-20090902

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1059

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-RB02-20090908

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0759

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	11	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-RB02-20090908

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0759

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	0.84	J
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-RB03-20090915

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1059

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-RB03-20090915

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1059

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	1.3	J
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	2.4	J
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	8.4	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-RB03-20090915

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1059

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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
87-61-6	1,2,3-Trichlorobenzene	2.8	J
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-RB03-
20090915

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1059

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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-RB04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	12	J
75-09-2	Methylene Chloride	1.7	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	6.2	J
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-RB04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TW-RB04

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TW-RB04

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-02

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0269

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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-FB02-20090909

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1059

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	3.4	J
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	4.3	J
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB02-20090909

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-10

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1059

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	1.6	J
124-48-1	Dibromochloromethane	4.8	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB03-20090915

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.4	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	4.1	J
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB01-20090902

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1459

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	2.8	J
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	3.6	J
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB01-20090902

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-14

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-1459

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/16/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	1.2	J
124-48-1	Dibromochloromethane	4.6	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB03-20090915

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.4	
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.5	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB03-20090915

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-FB03-20090915

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-11

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1159

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/29/09

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-FB04-20090924

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0769

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	6.2	J
75-09-2	Methylene Chloride	3.0	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	3.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	3.4	J
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB04-20090924

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0769

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	2.0	J
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	4.3	J
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	2.2	J
98-82-8	Isopropyl Benzene	5.0	U
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-FB04-20090924

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0769

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-FB04-20090924

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-07

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0769

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/07/09

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.

FT-TB01-20090831

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0159

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FT-TB01-
20090831

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-0159

Level: (low/med) LOW Date Received: 09/03/09

% Moisture: not dec. _____ Date Analyzed: 09/14/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB02-
20090903

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-22

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-2259

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	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
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB02-
20090903

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909027

Matrix: (soil/water) WATER Lab Sample ID: 0909027-22

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909027-2259

Level: (low/med) LOW Date Received: 09/05/09

% Moisture: not dec. _____ Date Analyzed: 09/17/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB03-
20090908

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0359

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	5.7	JB
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB03-20090908

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-03

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-0359

Level: (low/med) LOW Date Received: 09/10/09

% Moisture: not dec. _____ Date Analyzed: 09/18/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-TB04-20090910

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1659

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
75-71-8	Dichlorodifluoromethane	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
79-20-9	Methyl acetate	5.0	U
76-13-1	1,1,2-trichloro-1,2,2-triflu	5.0	U
67-64-1	Acetone	7.3	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
156-60-5	trans-1,2-DCE (part of total	5.0	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-butanone	13	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
156-59-2	cis-1,2-DCE (part of total)	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	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
108-87-2	Methylcyclohexane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
591-78-6	2-hexanone	13	U

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FC-TB04-20090910

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909058

Matrix: (soil/water) WATER Lab Sample ID: 0909058-16

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909058-1659

Level: (low/med) LOW Date Received: 09/11/09

% Moisture: not dec. _____ Date Analyzed: 09/22/09

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
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
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	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

FORM I VOA

AMENDED DATA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB05-
20090914

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB05-20090914

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
108-10-1	4-Methyl-2-pentanone	10	J
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.1	

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB05-20090914

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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
87-61-6	1,2,3-Trichlorobenzene	2.5	J
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TB05-
20090914

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-12

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1259

Level: (low/med) LOW Date Received: 09/17/09

% Moisture: not dec. _____ Date Analyzed: 09/28/09

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.				
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FORM I VOA-TIC

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB06-20090917

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1369

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB06-20090917

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1369

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB06-
20090917

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1369

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TB06-
20090917

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909125

Matrix: (soil/water) WATER Lab Sample ID: 0909125-13

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909125-1369

Level: (low/med) LOW Date Received: 09/19/09

% Moisture: not dec. _____ Date Analyzed: 10/01/09

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-TB07-20090921

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
75-71-8	Dichlorodifluoromethane	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
75-35-4	1,1-Dichloroethene	5.0	U
74-88-4	Iodomethane	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	5.9	J
75-09-2	Methylene Chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
107-13-1	Acrylonitrile	50	U
1634-04-4	Methyl-tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
594-20-7	2,2-Dichloropropane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-butanone	13	U
74-97-5	Bromochloromethane	5.0	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
74-95-3	Dibromomethane	5.0	U
80-62-6	Methylmethacrylate	50	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-chloroethyl vinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB07-20090921

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	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
108-86-1	Bromobenzene	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
103-65-1	n-Propyl Benzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethyl Benzene	5.0	U
98-06-6	tert-Butyl Benzene	5.0	U
95-63-6	1,2,4-Trimethyl Benzene	5.0	U
135-98-8	sec-Butyl Benzene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
99-87-6	p-Isopropyl Toluene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
104-51-8	n-Butyl Benzene	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SA-TB07-20090921

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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
87-61-6	1,2,3-Trichlorobenzene	5.0	U
1330-20-7	Xylene (total)	5.0	U
110-54-3	n-Hexane	5.0	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SA-TB07-20090921

Lab Name: COMPUCHEM Contract: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 0909208

Matrix: (soil/water) WATER Lab Sample ID: 0909208-01

Sample wt/vol: 5 (g/ml) ML Lab File ID: 0909208-0169

Level: (low/med) LOW Date Received: 09/26/09

% Moisture: not dec. _____ Date Analyzed: 10/05/09

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. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	13.86	5.8	NJ
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FORM I VOA-TIC

APPENDIX J

VALIDATION SUMMARIES

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**JULY 1, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0903179**		
SAMPLES:	5 / Aqueous / VOC		

SA-SW-124	SA-SW-125	SA-SW-201
SA-SW-204	SA-SW-DUP01	

Overview

The sample set for NWIRP Calverton, SDG 0903179 consists of five (5) 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-SW-DUP01 / SA-SW-125.

The samples were collected by Tetra Tech on March 24, 2009 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
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Field Duplicate Analysis
* • 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 compound was detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Naphthalene	4.7	23.5

An action level of 5X the maximum contaminant concentration for volatile 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.

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 samples were acid preserved and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Naphthalene was detected in the method blank resulting in sample data qualification.

Other Factors Affecting Data Quality: 2-chloroethyl vinyl ether cannot be detected in acid preserved samples.

The data for these analyses were reviewed with reference to the "Volatile Organic Analysis of Ambient Air In Canister By Method TO-15" EPA Region II SOP #HW-31 Revision #4 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 – 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 coefficent 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 SDG: 0903179 FRACTION: OV MEDIA: WATER	NSAMPLE	SA-SW-124			SA-SW-125			SA-SW-201			SA-SW-204		
	LAB_ID	0903179-01			0903179-02			0903179-03			0903179-05		
	SAMP_DATE	3/24/2009			3/24/2009			3/24/2009			3/24/2009		
	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		4.9	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-CHLOROETHYL VINYL ETHER		5	U		5	U		5	U		5	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	
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	
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	
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	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		0.88	J	P	1	J	P	1	J	P	1.9	J	P
NAPHTHALENE		5	U	A	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-DUP01		
SDG: 0903179	LAB_ID	0903179-04		
FRACTION: OV	SAMP_DATE	3/24/2009		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF	SA-SW-125		
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-CHLOROETHYL VINYL ETHER		5	U	
4-METHYL-2-PENTANONE		13	U	
ACETONE		13	U	
BENZENE		5	U	
BROMODICHLOROMETHANE		5	U	
BROMOFORM		5	U	
CARBON DISULFIDE		5	U	
CARBON TETRACHLORIDE		5	U	
CHLOROBENZENE		5	U	
CHLORODIBROMOMETHANE		5	U	
CHLOROFORM		5	U	
CHLOROMETHANE		5	U	
CIS-1,2-DICHLOROETHENE		5	U	
CIS-1,3-DICHLOROPROPENE		5	U	
DICHLORODIFLUOROMETHANE		5	U	
ETHYLBENZENE		5	U	
ISOPROPYLBENZENE		5	U	
M+P-XYLENES		10	U	
METHYL TERT-BUTYL ETHER		5	U	
METHYLENE CHLORIDE		1.3	J	P
NAPHTHALENE		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-124			SA-SW-125			SA-SW-201			SA-SW-204		
SDG: 0903179	LAB_ID	0903179-01			0903179-02			0903179-03			0903179-05		
FRACTION: OV	SAMP_DATE	3/24/2009			3/24/2009			3/24/2009			3/24/2009		
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
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 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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-SW-DUP01		
SDG: 0903179	LAB_ID	0903179-04		
FRACTION: OV	SAMP_DATE	3/24/2009		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF	SA-SW-125		
PARAMETER		RESULT	VQL	QLCD
O-XYLENE		5	U	
STYRENE		5	U	
TETRACHLOROETHENE		5	U	
TOLUENE		5	U	
TOTAL XYLENES		5	U	
TRANS-1,2-DICHLOROETHENE		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U	
TRICHLOROETHENE		5	U	
VINYL CHLORIDE		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**JULY 1, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0903187**		
SAMPLES:	5 / Sediment / VOC		

SA-SD-124	SA-SD-125	SA-SD-201
SA-SD-204	SA-SD-DUP01	

Overview

The sample set for NWIRP Calverton, SDG 0903187 consists of five (5) sediment environmental samples. The sediment samples were analyzed for volatile organic compounds (VOC). There was one field duplicate pair associated with this sample data group (SDG); SA-SD-DUP01 / SA-SD-125.

The samples were collected by Tetra Tech on March 25, 2009 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
* • Initial/continuing calibrations
* • Laboratory Method Blank Results
* • Field Duplicate Analysis
* • 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

Sample duplicate pair SA-SD-DUP01 / SA-SD-125 had % solids content <30% (moisture >70%). All positive and non-detected results for samples SA-SD-DUP01 and SA-SD-125 were qualified estimated, (J) and (UJ), respectively.

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.

Sample SA-SD-DUP01 had an internal standard recovery less than the quality control limit for 1,2-dichlorobenzene-d4 on both the initial analysis and a re-analysis. No action was taken for this QC non-compliance as this was only a limited data review.

There were system monitoring compound % recoveries outside of the QC limits for samples SA-SD-125, SA-SD-DUP01, SA-SD-204, the repeat analyses for SA-SD-125 and SA-SD-DUP01, and the matrix spike/matrix spike duplicate analyses for sample SA-SD-204. No action was taken for these QC limit non-compliances as this was only a limited data review.
There were % recoveries less than the quality control limit for the matrix spike for 1,2,4,-trichlorobenzene and for the matrix spike duplicate for 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and 1,2,4-trichlorobenzene. No action was taken for these QC limit non-compliances as this was only a limited data review.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Sample duplicate pair SA-SD-DUP01 / SA-SD-125 had % solids content <30% (moisture >70%) resulting in data qualification for the samples positive and non-detected VOC sample results.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "Volatile Organic Analysis of Ambient Air In Canister By Method TO-15" EPA Region II SOP #HW-31 Revision #4 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 – 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	SA-SD-124			SA-SD-125			SA-SD-201			SA-SD-204		
SDG: 0903187	LAB_ID	0903187-01			0903187-02			0903187-03			0903187-05		
FRACTION: OV	SAMP_DATE	3/24/2009			3/24/2009			3/24/2009			3/24/2009		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	69.0			18.0			75.0			81.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,1,2,2-TETRACHLOROETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,1,2-TRICHLOROETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,1-DICHLOROETHANE		7.5			28	UJ	Y	6.7	U		6.2	U	
1,1-DICHLOROETHENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,1-DICHLOROPROPENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,2,4-TRICHLOROBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,2-DIBROMO-3-CHLOROPROPANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,2-DIBROMOETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,2-DICHLOROBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,2-DICHLOROETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,2-DICHLOROPROPANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,3-DICHLOROBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
1,4-DICHLOROBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
2-CHLOROETHYL VINYL ETHER		7.2	U		28	UJ	Y	6.7	U		6.2	U	
4-METHYL-2-PENTANONE		18	U		69	UJ	Y	17	U		15	U	
ACETONE		18	U		360	J	Y	17	U		15	U	
BENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
BROMODICHLOROMETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
BROMOFORM		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CARBON DISULFIDE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CARBON TETRACHLORIDE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CHLOROBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CHLORODIBROMOMETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CHLOROFORM		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CHLOROMETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CIS-1,2-DICHLOROETHENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
CIS-1,3-DICHLOROPROPENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
DICHLORODIFLUOROMETHANE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
ETHYLBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
ISOPROPYLBENZENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
M+P-XYLENES		14	U		56	UJ	Y	13	U		12	U	
METHYL TERT-BUTYL ETHER		7.2	U		28	UJ	Y	6.7	U		6.2	U	
METHYLENE CHLORIDE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
NAPHTHALENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01		
SDG: 0903187	LAB_ID	0903187-04		
FRACTION: OV	SAMP_DATE	3/24/2009		
MEDIA: SEDIMENT	QC_TYPE	NM		
	UNITS	UG/KG		
	PCT_SOLIDS	16.0		
	DUP_OF	SA-SD-125		
PARAMETER		RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		31	UJ	Y
1,1,2,2-TETRACHLOROETHANE		31	UJ	Y
1,1,2-TRICHLOROETHANE		31	UJ	Y
1,1,2-TRICHLOROTRIFLUOROETHANE		31	UJ	Y
1,1-DICHLOROETHANE		31	UJ	Y
1,1-DICHLOROETHENE		31	UJ	Y
1,1-DICHLOROPROPENE		31	UJ	Y
1,2,4-TRICHLOROBENZENE		31	UJ	Y
1,2-DIBROMO-3-CHLOROPROPANE		31	UJ	Y
1,2-DIBROMOETHANE		31	UJ	Y
1,2-DICHLOROBENZENE		31	UJ	Y
1,2-DICHLOROETHANE		31	UJ	Y
1,2-DICHLOROPROPANE		31	UJ	Y
1,3-DICHLOROBENZENE		31	UJ	Y
1,4-DICHLOROBENZENE		31	UJ	Y
2-CHLOROETHYL VINYL ETHER		31	UJ	Y
4-METHYL-2-PENTANONE		78	UJ	Y
ACETONE		400	J	Y
BENZENE		31	UJ	Y
BROMODICHLOROMETHANE		31	UJ	Y
BROMOFORM		31	UJ	Y
CARBON DISULFIDE		31	UJ	Y
CARBON TETRACHLORIDE		31	UJ	Y
CHLOROBENZENE		31	UJ	Y
CHLORODIBROMOMETHANE		31	UJ	Y
CHLOROFORM		31	UJ	Y
CHLOROMETHANE		31	UJ	Y
CIS-1,2-DICHLOROETHENE		31	UJ	Y
CIS-1,3-DICHLOROPROPENE		31	UJ	Y
DICHLORODIFLUOROMETHANE		31	UJ	Y
ETHYLBENZENE		31	UJ	Y
ISOPROPYLBENZENE		31	UJ	Y
M+P-XYLENES		63	UJ	Y
METHYL TERT-BUTYL ETHER		31	UJ	Y
METHYLENE CHLORIDE		31	UJ	Y
NAPHTHALENE		31	UJ	Y

PROJ_NO: 01655	NSAMPLE	SA-SD-124			SA-SD-125			SA-SD-201			SA-SD-204		
SDG: 0903187	LAB_ID	0903187-01			0903187-02			0903187-03			0903187-05		
FRACTION: OV	SAMP_DATE	3/24/2009			3/24/2009			3/24/2009			3/24/2009		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	69.0			18.0			75.0			81.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
O-XYLENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
STYRENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
TETRACHLOROETHENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
TOLUENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
TOTAL XYLENES		7.2	U		28	UJ	Y	6.7	U		6.2	U	
TRANS-1,2-DICHLOROETHENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
TRANS-1,3-DICHLOROPROPENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
TRICHLOROETHENE		7.2	U		28	UJ	Y	6.7	U		6.2	U	
VINYL CHLORIDE		7.2	U		28	UJ	Y	6.7	U		6.2	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01		
SDG: 0903187	LAB_ID	0903187-04		
FRACTION: OV	SAMP_DATE	3/24/2009		
MEDIA: SEDIMENT	QC_TYPE	NM		
	UNITS	UG/KG		
	PCT_SOLIDS	16.0		
	DUP_OF	SA-SD-125		
PARAMETER		RESULT	VQL	QLCD
O-XYLENE		31	UJ	Y
STYRENE		31	UJ	Y
TETRACHLOROETHENE		31	UJ	Y
TOLUENE		39	J	Y
TOTAL XYLENES		31	UJ	Y
TRANS-1,2-DICHLOROETHENE		31	UJ	Y
TRANS-1,3-DICHLOROPROPENE		31	UJ	Y
TRICHLOROETHENE		31	UJ	Y
VINYL CHLORIDE		31	UJ	Y

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**JULY 1, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0903188**		
SAMPLES:	7 / Aqueous / VOC		

CA-PRSC-01	CA-PRSC-02-01	CA-PRSC-02-02
CA-PRSC-02-03	CA-PRSC-03	CA-PRSC-04
CA-PRSC-DUP01		

Overview

The sample set for NWIRP Calverton, SDG 0903188 consists of seven (7) 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); CA-PRSC-DUP01 / CA-PRSC-03.

The samples were collected by Tetra Tech on March 25, 2009 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
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Field Duplicate Analysis
* • 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 compound was detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Naphthalene	4.7	23.5

An action level of 5X the maximum contaminant concentration for volatile 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. All samples had non-detected results for naphthalene and no samples were qualified as a result of laboratory blank contamination.

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 samples were acid preserved and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples.

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: 2-chloroethyl vinyl ether cannot be detected in acid preserved samples.

The data for these analyses were reviewed with reference to the "Volatile Organic Analysis of Ambient Air In Canister By Method TO-15" EPA Region II SOP #HW-31 Revision #4 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 – 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 SDG: 0903188 FRACTION: OV MEDIA: WATER	NSAMPLE	CA-PRSC-01			CA-PRSC-02-01			CA-PRSC-02-02			CA-PRSC-02-03		
	LAB_ID	0903188-07			0903188-06			0903188-05			0903188-04		
	SAMP_DATE	3/25/2009			3/25/2009			3/25/2009			3/25/2009		
	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		12		
1,1-DICHLOROETHENE		5	U		5	U		5	U		3.3	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		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-CHLOROETHYL VINYL ETHER		5	U		5	U		5	U		5	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	
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	
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	
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	
M+P-XYLENES		10	U		10	U		10	U		10	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	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03			CA-PRSC-04			CA-PRSC-DUP01		
SDG: 0903188	LAB_ID	0903188-01			0903188-02			0903188-03		
FRACTION: OV	SAMP_DATE	3/25/2009			3/25/2009			3/25/2009		
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		
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-CHLOROETHYL VINYL ETHER		5	U		5	U		5	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	
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	
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	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	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	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01			CA-PRSC-02-01			CA-PRSC-02-02			CA-PRSC-02-03		
SDG: 0903188	LAB_ID	0903188-07			0903188-06			0903188-05			0903188-04		
FRACTION: OV	SAMP_DATE	3/25/2009			3/25/2009			3/25/2009			3/25/2009		
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
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 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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03			CA-PRSC-04			CA-PRSC-DUP01		
SDG: 0903188	LAB_ID	0903188-01			0903188-02			0903188-03		
FRACTION: OV	SAMP_DATE	3/25/2009			3/25/2009			3/25/2009		
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		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
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 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	
VINYL CHLORIDE		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**AUGUST 18, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0906202**		
SAMPLES:	8 / Aqueous / VOC		

CA-PRSC-01	CA-PRSC-0201	CA-PRSC-0202
CA-PRSC-0203	CA-PRSC-03	CA-PRSC-04
CA-PRSC-DUP	TRIP BLANK	

Overview

The sample set for NWIRP Calverton, SDG 0906202 consists of eight (8) aqueous environmental samples including one (1) trip blank and one (1) field duplicate. The aqueous samples were analyzed for volatile organic compounds (VOC). The one field duplicate pair associated with this sample data group (SDG) was CA-PRSC-DUP / CA-PRSC-0201.

The samples were collected by Tetra Tech on June 24, 2009 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
* • Initial/continuing calibrations
• Laboratory Method Blank Results
* • Field Duplicate Analysis
* • 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 compound was detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene chloride	2.2	22.0

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant volatile compound was established to evaluate laboratory contamination for the aforementioned compound. 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 with the exception of the TRIP BLANK which is not qualified due to laboratory contamination.

The continuing calibration %D was greater than the 20% quality control limit and < 90% for 4-methyl-2-pentanone, tetrachloroethene, and 1,2,4-trichlorobenzene for instrument 5972HP59 on 07/01/09 @ 10:07 affecting all samples. All sample results for 4-methyl-2-pentanone, tetrachloroethene, and 1,2,4-trichlorobenzene were non-detected and were qualified estimated, (UJ).

Instrument 5972HP59 was not calibrated for 2-chloroethyl vinyl ether, and the continuing calibration, LSC and MS/MSD results for 2-chloroethyl vinyl ether were outside the quality control limits. The samples were acid preserved (except for sample CA-PRSC-04) and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples. All sample results for 2-chloroethyl vinyl ether were non-detected and the sample results were qualified rejected, (UR).

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.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride was detected in the method blank resulting in sample data qualification. Continuing calibration %D results greater than the quality control limit resulted in data qualification. Initial and continuing calibration quality control limit non-compliances resulted in the rejection of 2-chloroethyl vinyl ether results for all samples.

Other Factors Affecting Data Quality: The samples were preserved with acid which prevents detection of 2-chloroethyl vinyl ether.

The data for these analyses were reviewed with reference to the Organic Data Validation (10/99), USEPA Region II Standard Operating Procedures for Validating Volatile Organic Compounds by 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 – 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			CA-PRSC-0201			CA-PRSC-0202			CA-PRSC-0203		
SDG: 0906202	LAB_ID	0906202-02			0906202-01			0906202-03			0906202-04		
FRACTION: OV	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
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		12			1.1	J	P	5	U	
1,1-DICHLOROETHENE		5	U		3.6	J	P	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		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-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
4-METHYL-2-PENTANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
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	
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	
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	
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	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		3.1	U	A	1.8	U	A	2.2	U	A	2.5	U	A
M-XYLENE		10	U		10	U		10	U		10	U	
NAPHTHALENE		3.4	J	P	5	U		5	U		5	U	

PROJ_NO: 01655 SDG: 0906202 FRACTION: OV MEDIA: WATER	NSAMPLE	CA-PRSC-03			CA-PRSC-04			CA-PRSC-DUP			TRIP BLANK		
	LAB_ID	0906202-05			0906202-06			0906202-08			0906202-07		
	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
	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-0201					
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			5	U	
1,1-DICHLOROETHENE		5	U		5	U		3.5	J	P	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		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-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
4-METHYL-2-PENTANONE		13	UJ	C	13	UJ	C	13	UJ	C	13	UJ	C
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	
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	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		1.1	J	P	5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U		5	U		1.3	J	P	5	U	
CIS-1,3-DICHLOROPROPENE		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	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		2.3	U	A	2.5	U	A	1.8	U	A	2.6	J	P
M-XYLENE		10	U		10	U		10	U		10	U	
NAPHTHALENE		5	U		5	U		5	U		2.9	J	P

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01			CA-PRSC-0201			CA-PRSC-0202			CA-PRSC-0203		
SDG: 0906202	LAB_ID	0906202-02			0906202-01			0906202-03			0906202-04		
FRACTION: OV	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
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
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
TOLUENE		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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655 SDG: 0906202 FRACTION: OV MEDIA: WATER	NSAMPLE	CA-PRSC-03			CA-PRSC-04			CA-PRSC-DUP			TRIP BLANK		
	LAB_ID	0906202-05			0906202-06			0906202-08			0906202-07		
	SAMP_DATE	6/24/2009			6/24/2009			6/24/2009			6/24/2009		
	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-0201					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
O-XYLENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
TOLUENE		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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**DECEMBER 8, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – TOC NWIRP CALVERTON CTO 160 SDG 0909023**		
SAMPLES:	7 / Soil / TOC		

FC-SB-07I-200909-5456
SA-SB-130S-200909-1921
SA-SB-131I-200909-4142
SA-SB-132S-200909-1416
SA-SB-130I-200909-4446
SA-SB-131I-200909-4041
SA-SB-132I-200909-3738

Overview

The sample set for NWIRP Calverton, SDG 0909023 consists of seven (7) soil environmental samples. The soil samples were analyzed for total organic compounds (TOC). There were no field duplicates associated with this sample data group (SDG).

The samples were collected by Tetra Tech on September 2, 8, 9, and 10, 2009 and analyzed by CompuChem, a division of Liberty Analytical Corporation. All analyses were conducted in accordance with the USEPA Lloyd Khan Method for Total Organic Carbon (TOC) analysis analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Hold times
* • Initial/continuing calibrations
* • Laboratory Method Blank Results
* • 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, and documentation supporting these findings is presented in Appendix C.

TOC

No data validation issues were identified in this limited data review.

Additional Comments

Sample results were reported on a dry weight basis (corrected for moisture content).

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review" (10/2004) as amended for use in Region II.

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

PROJ_NO: 01655	NSAMPLE	FC-SB-07I-200909-5456			SA-SB-130I-200909-4446			SA-SB-130S-200909-1921			SA-SB-131I-200909-4041		
SDG: 0909023	LAB_ID	0909023-07			0909023-05			0909023-06			0909023-01		
FRACTION: MISC	SAMP_DATE	9/10/2009			9/9/2009			9/10/2009			9/2/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	78.0			80.0			78.0			77.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL ORGANIC CARBON		877.9			1640			5101			2304		

PROJ_NO: 01655	NSAMPLE	SA-SB-131I-200909-4142			SA-SB-132I-200909-3738			SA-SB-132S-200909-1416		
SDG: 0909023	LAB_ID	0909023-02			0909023-03			0909023-04		
FRACTION: MISC	SAMP_DATE	9/2/2009			9/8/2009			9/8/2009		
MEDIA: SOIL	QC_TYPE	NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	73.0			71.0			76.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL ORGANIC CARBON		3215			5049			1818		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**DECEMBER 8, 2009**
FROM:	**A. COGNETTI**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC/OVG**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 0909026

SAMPLES: 19/Aqueous/VOC/OVG

FC-MW-05I-20090909	FC-MW-05S-200090909	FT-DUP01-20090901
FT-MW-02I-20090901	FT-MW-02S-20090901	FT-MW-05I-20090831
FT-MW-05S-20090831	SA-DUP02-20090902	SA-MW-127D-20090903
SA-MW-127I-20090903	SA-MW-127S-20090903	SA-MW-128D-20090903
SA-MW-128I-20090904	SA-MW-128S-20090903	SA-PZ-118I-20090902
SA-PZ-118S-20090902	SA-PZ-123I-20090902	SA-PZ-123I1-20090902
SA-PZ-123S-20090902		

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 0909026 consists of nineteen (19) environmental aqueous samples. The samples were analyzed for select volatile organic compounds (VOC) and Organic Volatile Gases (OVG). The field duplicate pairs within this SDG are FT-MW-02S-20090901/FT-DUP01-20090901 and SA-PZ-118S-20090902/SA-DUP02-20090902.

The samples were collected on August 31, 2009 and September 1, 2, 3 and 9, 2009 and analyzed by CompuChem, a division of Liberty Analytical Corporation. VOC analyses were conducted in accordance with EPA Method SW-846 8260B. OVG analyses were conducted in accordance to SW-846 Method RSK 175. 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
• Laboratory Control Sample Recoveries
* • Matrix Spike Recoveries
• Internal Standard Recoveries
• 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

Analysis hold time of 14 days for aqueous samples was not met by the laboratory for samples FT-MW02S-20090901, FT-DUP01-20090901 and SA-MW-127I-20090903-DL. The holding time action according to Region II guidelines states that nondetected results would be rejected for this noncompliance. For the

aforementioned samples FT-MW02S-20090901 and FT-DUP01-20090901, positive detections for validation purposes will be taken from the original sample (undiluted) and nondetected results from the diluted samples. In sample

SA-MW-127I-20090903-DL, only the positive result of 1,1- dichloroethane was impacted by the hold time exceedance.

Several laboratory method blanks contained contaminants.

Method Blank	Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)	Affected Samples
VBLKIT	Methylene chloride	1.0	10.0	FT-MW-05I-20090831 FT-MW-05S-20090831 FT-MW-02I-20090901 FT-MW-02S-20090901-DL FT-MW-DUP01-20090901-DL
VBLKJB	Naphthalene	2.9	14.5	SA-PZ-123S-20090902 SA-PZ-118I-20090902 SA-PZ-118S-20090902 SA-DUP02-20090902 SA-PZ-123I1-20090902 SA-PZ-123I-20090902
VBLKJC	Naphthalene	4.4	22.0	SA-MW-127S-20090903 SA-MW-127I-20090903 SA-MW-127D-20090903 SA-MW-128S-20090903 SA-MW-128D-20090903 SA-MW-128I-20090904 FC-MW-05I-20090909 FC-MW-05S-20090909
VBLKJE	Bromomethane	0.81	4.05	FT-MW-02S-20090901
	Acetone	6.8	68.0	FT-DUP01-20090901
	2-hexanone	5.2	26.0	
	Naphthalene	2.0	10.0	
VBLKKA	Naphthalene	2.9	14.5	SA-MW-127I-20090903-DL

An action level of 5X the maximum contaminant concentration of naphthalene, bromomethane and 2-hexanone was established to evaluate the samples for laboratory method blank contamination. An action level of 10X the maximum concentration of methylene chloride and acetone, 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. If the concentration of contaminant in the affected sample was less than the reporting limit and also less than the action level, the sample concentration was raised to the reporting limit and qualified as (U). If the concentration of contaminant in the affected sample was less than the action level, the sample concentration was reported and qualified as (U) as a result of blank contamination. No action was taken if the concentration of contaminant in the affected sample was greater than the action level.

In the continuing calibration on September 14, 2009 @ 16:41 on instrument 5972HP59, several analytes had percent differences (%D) greater than the Region II quality control limit of 20%. The analytes include bromomethane, 2-hexanone, 4-methyl-2-pentanone, chloroethane, chloromethane and 2-butanone. Positive detections for the aforementioned analytes were qualified (J) and nondetects (UJ) in the affected samples

In the continuing calibration of instrument 5972HP59 on September 18, 2009 @ 11:36, acetone had a mean relative response factor (RRF) less than the 0.05 quality control limit. No action was taken on the affected samples FT-MW-02S-20090901 and FT-DUP01-20090901 since the positive detections for acetone were already qualified for blank contamination.

In the continuing calibration of instrument 5972HP59 on September 18, 2009 @ 11:36, trichlorofluoromethane, methyl acetate and bromomethane had a %D greater than the 20% quality control limit. No action was taken because results for the affected analytes were not repoted in these samples (FT-MW-02S-20090901 and FT-DUP01-20090901).

In the laboratory control sample VJELLCS, the relative percent difference (RPD) between the laboratory control sample and the laboratory control sample duplicate for acetone was greater than the 30% quality control limit. This noncompliance affects samples FT-MW-02S-20090901 and FT-DUP01-20090901. The positive results for acetone were previously qualified for blank contamination in these samples. No further action was taken.

The internal standard area of 1,4-dichlorobenzene-d4 was less than the lower quality control limit in samples FT-MW-02I-20090901 and FT-MW-02S-20090901-DL. The positive and nondetected results quanitiated with this internal standard were qualified as (J)) and (UJ), respectively.

Field duplicate imprecision was noted for 1,2,4-trichlorobenzene in field duplicate pair FT-MW-02S-20090901/FT-DUP01-20090901. The %RPD for 1,2,4-trichlorobenzene was greater than the 30% quality control limit. No action was taken since the variance in concentrations between the samples was less than 2X the reporting limit.

The following samples were diluted in the VOC fraction; FT-DUP01-20090901 (5X), FT-MW-02S-20090901 (5X) and SA-MW127I-20090903 (2).

Organic Volatile Gases

Analysis hold time of 14 days for aqueous samples was only met for samples SA-MW-127S-20090903, SA-MW-127I-20090903, SA-MW-127D20090903, SA-MW-128S-20090903, SA-MW-128D-20090903, SA-MW-128I-20090904, FC-MW-05I-20090909 and FC-MW-05S-20090909. The holding time action according to Region II guidelines states that nondetected results would be rejected (UR) and positive results qualified as (J) for this noncompliance. This action was taken in all of the samples except for the aforementioned samples which met hold time criteria.

Blank contamination of methane was detected in method blank PBLKTB.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Methane	0.3	1.5

An action level of 5X the maximum concentration of methane was established to evaluate samples for blank contamination. This method blank affects all the samples except the diluted samples FT-DUP01-20090901-DL, FT-MW-02S-20090901-DL, SA-DUP02-20090902-DL and SA-PZ-118S-20090902-DL which are associated with another method blank. Sample aliquot and dilution factors were taken into consideration during application of the blank action level. If the concentration of contaminant in the affected sample was less than the reporting limit and also less than the action level, the sample concentration was raised to the reporting limit and qualified as (U). If the concentration of contaminant in the affected sample was less than the action level, the sample

concentration was reported and qualified as (U) as a result of blank contamination. No action was taken if the concentration of contaminant in the affected sample was greater than the action level.

In the matrix spike/matrix spike duplicate samples of FT-MW-02I-20090901, the RPD was greater than the 20% quality control limit for methane, ethane and ethene. No action was taken on sample FT-MW-02I-20090901 due to this noncompliance.

Field duplicate imprecision was noted for methane in field duplicate pair FT-MW-02S-20090901-DL and FT-DUP01-20090901-DL. The RPD was greater than the 30% quality control limit and the variance between samples was greater than 2X the reporting limit. Positive detections of methane in both samples were qualified (J) due to field duplicate imprecision.

Field duplicate imprecision was noted for methane in field duplicate pair SA-PZ-118S-20090902-DL and SA-DUP02-20090902-DL. The RPD was greater than the 30% quality control limit and the variance between samples was greater than 2X the reporting limit. Positive detections of methane in both samples were qualified (J) due to field duplicate imprecision.

The following samples were diluted in the OVG fraction; FT-DUP01-20090901 (20X), FT-MW-02S-20090901 (20X), SA-DUP02-20090902 (10X) and SA-PZ-118S-20090902 (10X).

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 initial data reported by the laboratory did not include all the VOC sample analytes listed in the Sample Analysis Program (SAP) and had to be resubmitted by the laboratory with the amended forms.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several contaminants were detected in the method blanks for the VOC and OVG fraction. Holding time exceedances were noted in several samples in both fractions. The continuing calibration percent difference was greater than the quality control limit for several analytes in the VOC fraction. The internal standard area was less than the quality control lower limit for 1,4-dichlorobanzene-d4 in samples FT-MW-02I-20090901 and FT-MW-02S-20090901-DL.

Other Factors Affecting Data Quality: Field duplicate imprecision for methane was noted in both field duplicate pairs.

The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846/8260B 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.

Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator

TO: R. Sok- PAGE 5
DATE:December 8, 2009

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	FC-MW-05I-20090909			FC-MW-05S-20090909			FT-DUP01-20090901			FT-DUP01-20090901-DL		
SDG: 0909026	LAB_ID	0909026-18			0909026-19			0909026-05			0909026-05RE1		
FRACTION: OV	SAMP_DATE	9/9/2009			9/9/2009			9/1/2009			9/1/2009		
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-20090901			FT-MW-02S-20090901-DL		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U					25	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U					25	U	
1,1,2-TRICHLOROETHANE		5	U		5	U					25	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U					25	U	
1,1-DICHLOROETHANE		5	U		5	U		5.9	J	H			
1,1-DICHLOROETHENE		5	U		5	U					25	U	
1,1-DICHLOROPROPENE		5	U		5	U					25	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U					25	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U					25	U	
1,2-DIBROMOETHANE		5	U		5	U					25	U	
1,2-DICHLOROBENZENE		5	U		5	U		5.3	J	H			
1,2-DICHLOROETHANE		5	U		5	U					25	U	
1,2-DICHLOROPROPANE		5	U		5	U					25	U	
1,3-DICHLOROBENZENE		5	U		5	U					25	U	
1,4-DICHLOROBENZENE		5	U		5	U		1.6	J	HP			
2-BUTANONE		13	U		13	U		8.1	J	HP			
2-HEXANONE		13	U		13	U					63	UJ	C
4-METHYL-2-PENTANONE		13	U		13	U					63	UJ	C
ACETONE		13	U		13	U		39	U	A			
BENZENE		5	U		5	U					25	U	
BROMODICHLOROMETHANE		5	U		5	U					25	U	
BROMOFORM		5	U		5	U					25	U	
BROMOMETHANE		5	U		5	U					25	UJ	C
CARBON DISULFIDE		5	U		5	U					25	U	
CARBON TETRACHLORIDE		5	U		5	U					25	U	
CHLOROBENZENE		5	U		5	U					25	U	
CHLORODIBROMOMETHANE		5	U		5	U					25	U	
CHLOROETHANE		5	U		5	U					25	UJ	C
CHLOROFORM		5	U		5	U					25	U	
CHLOROMETHANE		5	U		5	U					25	UJ	C
CIS-1,2-DICHLOROETHENE		5	U		5	U					25	U	
CIS-1,3-DICHLOROPROPENE		5	U		5	U					25	U	
CYCLOHEXANE		5	U		5	U		1.7	J	HP			
DICHLORODIFLUOROMETHANE		5	U		5	U					25	U	
ETHYLBENZENE		5	U		5	U		15	J	H			
ISOPROPYLBENZENE		5	U		5	U		5	J	H			

PROJ_NO: 01655	NSAMPLE	FT-MW-02I-20090901			FT-MW-02S-20090901			FT-MW-02S-20090901-DL			FT-MW-05I-20090831		
SDG: 0909026	LAB_ID	0909026-01			0909026-04			0909026-04RE1			0909026-02		
FRACTION: OV	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			8/31/2009		
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					25	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U					25	U		5	U	
1,1,2-TRICHLOROETHANE		5	U					25	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U					25	U		5	U	
1,1-DICHLOROETHANE		5	U		5.7	J	HP				5	U	
1,1-DICHLOROETHENE		5	U					25	U		5	U	
1,1-DICHLOROPROPENE		5	U					25	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	N	2.2	J	HP				5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	N				25	UJ	N	5	U	
1,2-DIBROMOETHANE		5	U					25	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	N	5.2	J	H				5	U	
1,2-DICHLOROETHANE		5	U					25	U		5	U	
1,2-DICHLOROPROPANE		5	U					25	U		5	U	
1,3-DICHLOROBENZENE		5	UJ	N				25	UJ	N	5	U	
1,4-DICHLOROBENZENE		5	UJ	N	2	J	HP				5	U	
2-BUTANONE		13	UJ	C	10	J	HP				13	UJ	C
2-HEXANONE		13	UJ	C	6.7	U	A				13	UJ	C
4-METHYL-2-PENTANONE		13	UJ	C				63	UJ	C	13	UJ	C
ACETONE		13	U		34	U	A				13	U	
BENZENE		5	U					25	U		5	U	
BROMODICHLOROMETHANE		5	U					25	U		5	U	
BROMOFORM		5	U					25	U		5	U	
BROMOMETHANE		5	UJ	C				25	UJ	C	5	UJ	C
CARBON DISULFIDE		5	U					25	U		5	U	
CARBON TETRACHLORIDE		5	U					25	U		5	U	
CHLOROBENZENE		5	U					25	U		5	U	
CHLORODIBROMOMETHANE		5	U					25	U		5	U	
CHLOROETHANE		5	UJ	C				25	UJ	C	5	UJ	C
CHLOROFORM		5	U					25	U		5	U	
CHLOROMETHANE		5	UJ	C				25	UJ	C	5	UJ	C
CIS-1,2-DICHLOROETHENE		71						25	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U					25	U		5	U	
CYCLOHEXANE		5	U		1.7	J	HP				5	U	
DICHLORODIFLUOROMETHANE		5	U					25	U		5	U	
ETHYLBENZENE		5	U		14	J	H				5	U	
ISOPROPYLBENZENE		5	U		4.8	J	HP				5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-05S-20090831			SA-DUP02-20090902			SA-MW-127D-20090903			SA-MW-127I-20090903		
SDG: 0909026	LAB_ID	0909026-03			0909026-09			0909026-14			0909026-13		
FRACTION: OV	SAMP_DATE	8/31/2009			9/2/2009			9/3/2009			9/3/2009		
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-118S-20090902								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		61		
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		2.1	J	P	5	U				
1,1-DICHLOROETHENE		5	U		5	U		5	U		20		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		2.7	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		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		3.8	J	P
2-BUTANONE		13	UJ	C	13	U		13	U		13	U	
2-HEXANONE		13	UJ	C	13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	UJ	C	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	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		5	U		5	U		5	U	
CHLOROETHANE		5	UJ	C	5	U		5	U		29		
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	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-MW-127I-20090903-DL			SA-MW-127S-20090903			SA-MW-128D-20090903			SA-MW-128I-20090904		
SDG: 0909026	LAB_ID	0909026-13RE1			0909026-12			0909026-16			0909026-17		
FRACTION: OV	SAMP_DATE	9/3/2009			9/3/2009			9/3/2009			9/4/2009		
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		2.4	J	P
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		270	J	H	5	U		2.9	J	P	33		
1,1-DICHLOROETHENE					5	U		5	U		2.5	J	P
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		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	SA-MW-128S-20090903			SA-PZ-118I-20090902			SA-PZ-118S-20090902			SA-PZ-123I1-20090902		
SDG: 0909026	LAB_ID	0909026-15			0909026-07			0909026-08			0909026-10		
FRACTION: OV	SAMP_DATE	9/3/2009			9/2/2009			9/2/2009			9/2/2009		
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		2.5	J	P	6.3		
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		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-PZ-123I-20090902			SA-PZ-123S-20090902		
SDG: 0909026	LAB_ID	0909026-11			0909026-06		
FRACTION: OV	SAMP_DATE	9/2/2009			9/2/2009		
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	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		54			5	U	
1,1-DICHLOROETHENE		6.9			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	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		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	FC-MW-05I-20090909			FC-MW-05S-20090909			FT-DUP01-20090901			FT-DUP01-20090901-DL		
SDG: 0909026	LAB_ID	0909026-18			0909026-19			0909026-05			0909026-05RE1		
FRACTION: OV	SAMP_DATE	9/9/2009			9/9/2009			9/1/2009			9/1/2009		
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-20090901			FT-MW-02S-20090901-DL		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		20	J	H			
METHYL ACETATE		5	U		5	U					25	U	
METHYL CYCLOHEXANE		5	U		5	U		2.5	J	HP			
METHYL TERT-BUTYL ETHER		5	U		5	U					25	U	
METHYLENE CHLORIDE		5	U		5	U					25	U	
NAPHTHALENE		5	U		5	U		41	J	H			
O-XYLENE		5	U		5	U		5.2	J	H			
STYRENE		5	U		5	U					25	U	
TETRACHLOROETHENE		5	U		5	U					25	U	
TOLUENE		5	U		5	U					25	U	
TOTAL 1,2-DICHLOROETHENE		5	U		5	U					25	U	
TOTAL XYLENES		5	U		5	U		25	J	H			
TRANS-1,2-DICHLOROETHENE		5	U		5	U					25	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U					25	U	
TRICHLOROETHENE		5	U		5	U					25	U	
TRICHLOROFLUOROMETHANE		5	U		5	U					25	U	
VINYL CHLORIDE		5	U		5	U		1.4	J	HP			

PROJ_NO: 01655	NSAMPLE	FT-MW-02I-20090901			FT-MW-02S-20090901			FT-MW-02S-20090901-DL			FT-MW-05I-20090831		
SDG: 0909026	LAB_ID	0909026-01			0909026-04			0909026-04RE1			0909026-02		
FRACTION: OV	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			8/31/2009		
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		18	J	H				10	U	
METHYL ACETATE		5	U					25	U		5	U	
METHYL CYCLOHEXANE		5	U		2.5	J	HP				5	U	
METHYL TERT-BUTYL ETHER		5	U					25	U		5	U	
METHYLENE CHLORIDE		5	U					25	U		5	U	
NAPHTHALENE		5	UJ	N	41	J	H				1.8	J	P
O-XYLENE		5	U		4.7	J	HP				5	U	
STYRENE		5	U					25	U		5	U	
TETRACHLOROETHENE		5	U					25	U		5	U	
TOLUENE		5	U					25	U		5	U	
TOTAL 1,2-DICHLOROETHENE		76						25	U		5	U	
TOTAL XYLENES		5	U		23	J	H				5	U	
TRANS-1,2-DICHLOROETHENE		1.3	J	P				25	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U					25	U		5	U	
TRICHLOROETHENE		13						25	U		5	U	
TRICHLOROFLUOROMETHANE		5	U					25	U		5	U	
VINYL CHLORIDE		4.4	J	P	1.4	J	HP				5	U	

PROJ_NO: 01655	NSAMPLE	FT-MW-05S-20090831			SA-DUP02-20090902			SA-MW-127D-20090903			SA-MW-127I-20090903		
SDG: 0909026	LAB_ID	0909026-03			0909026-09			0909026-14			0909026-13		
FRACTION: OV	SAMP_DATE	8/31/2009			9/2/2009			9/3/2009			9/3/2009		
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-118S-20090902								
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	

PROJ_NO: 01655	NSAMPLE	SA-MW-127I-20090903-DL			SA-MW-127S-20090903			SA-MW-128D-20090903			SA-MW-128I-20090904		
SDG: 0909026	LAB_ID	0909026-13RE1			0909026-12			0909026-16			0909026-17		
FRACTION: OV	SAMP_DATE	9/3/2009			9/3/2009			9/3/2009			9/4/2009		
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	A	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		5	U		5	U	
TRICHLOROFLUOROMETHANE					5	U		5	U		5	U	
VINYL CHLORIDE					5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-MW-128S-20090903			SA-PZ-118I-20090902			SA-PZ-118S-20090902			SA-PZ-123I1-20090902		
SDG: 0909026	LAB_ID	0909026-15			0909026-07			0909026-08			0909026-10		
FRACTION: OV	SAMP_DATE	9/3/2009			9/2/2009			9/2/2009			9/2/2009		
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	

PROJ_NO: 01655	NSAMPLE	SA-PZ-123I-20090902			SA-PZ-123S-20090902		
SDG: 0909026	LAB_ID	0909026-11			0909026-06		
FRACTION: OV	SAMP_DATE	9/2/2009			9/2/2009		
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		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		5	U	
NAPHTHALENE		5	U		5	U	A
O-XYLENE		5	U		5	U	
STYRENE		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U	
TOLUENE		5	U		5	U	
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	FC-MW-05I-20090909			FC-MW-05S-20090909			FT-DUP01-20090901			FT-DUP01-20090901-DL		
SDG: 0909026	LAB_ID	0909026-18			0909026-19			0909026-05			0909026-05		
FRACTION: OVG	SAMP_DATE	9/9/2009			9/9/2009			9/1/2009			9/1/2009		
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-20090901			FT-MW-02S-20090901-DL		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		2	U		2	U		2	UR	H			
ETHENE		2	U		2	U		2	UR	H			
METHANE		1	U	A	1	U	A				340	J	HG

PROJ_NO: 01655	NSAMPLE	FT-MW-02I-20090901			FT-MW-02S-20090901			FT-MW-02S-20090901-DL			FT-MW-05I-20090831		
SDG: 0909026	LAB_ID	0909026-01			0909026-04			0909026-04			0909026-02		
FRACTION: OVG	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			8/31/2009		
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		2	U		2	UR	H				2	UR	H
ETHENE		2	U		2	UR	H				2	UR	H
METHANE		1	U	A				240	J	HG	1	U	A

PROJ_NO: 01655	NSAMPLE	FT-MW-05S-20090831			SA-DUP02-20090902			SA-DUP02-20090902-DL			SA-MW-127D-20090903		
SDG: 0909026	LAB_ID	0909026-03			0909026-09			0909026-09			0909026-14		
FRACTION: OVG	SAMP_DATE	8/31/2009			9/2/2009			9/2/2009			9/3/2009		
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-188S-20090902			SA-PZ-188S-20090902-DL					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		2	UR	H	2	UR	H				2	U	
ETHENE		2	UR	H	2	UR	H				2	U	
METHANE		2	J	H				290	J	HG	1	U	A

PROJ_NO: 01655	NSAMPLE	SA-MW-127I-20090903			SA-MW-127S-20090903			SA-MW-128D-20090903			SA-MW-128I-20090904		
SDG: 0909026	LAB_ID	0909026-13			0909026-12			0909026-16			0909026-17		
FRACTION: OVG	SAMP_DATE	9/3/2009			9/3/2009			9/3/2009			9/4/2009		
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		2	U		0.2	J	P	2	U		2	U	
ETHENE		2	U		2	U		2	U		2	U	
METHANE		35			1	U	A	13			27		

PROJ_NO: 01655	NSAMPLE	SA-MW-128S-20090903			SA-PZ-118I-20090902			SA-PZ-118S-20090902			SA-PZ-118S-20090902-DL		
SDG: 0909026	LAB_ID	0909026-15			0909026-07			0909026-08			0909026-08		
FRACTION: OVG	SAMP_DATE	9/3/2009			9/2/2009			9/2/2009			9/2/2009		
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		2	U		2	UR	H	2	UR	H			
ETHENE		2	U		2	UR	H	2	UR	H			
METHANE		2			1	U	A				210	J	HG

PROJ_NO: 01655	NSAMPLE	SA-PZ-123I1-20090902			SA-PZ-123I-20090902			SA-PZ-123S-20090902		
SDG: 0909026	LAB_ID	0909026-10			0909026-11			0909026-06		
FRACTION: OVG	SAMP_DATE	9/2/2009			9/2/2009			9/2/2009		
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		2	UR	H	2	UR	H	2	UR	H
ETHENE		2	UR	H	2	UR	H	2	UR	H
METHANE		20	J	H	32	J	H	5	J	H

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**DECEMBER 11, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0909058**		
SAMPLES:	16 / Aqueous / VOC		

ET-MW-01S-20090908	ET-MW-02S-20090908	ET-MW-03S-20090908
FC-DUP04-20090909	FC-DUP05-20090910	FC-MW-01I-20090910
FC-MW-01S-20090908	FC-MW-06S-20090909	FC-MW-07S-20090909
FC-MW-08S-20090910	FC-TB04-20090910	SA-FB02-20090909
SA-MW-129D-20090908	SA-PZ-120S-20090909	SA-RB02-20090908
SA-TB03-20090908		

Overview

The sample set for NWIRP Calverton, SDG 0909058 consists of sixteen (16) aqueous environmental samples including two (2) trip blanks, one (1) rinse blank, one (1) field blank, and two (2) field duplicate samples. The aqueous samples were analyzed for volatile organic compounds (VOC). There were two field duplicate pairs associated with this sample data group (SDG) and with two (2) other SDGs, SDG 0909026 and SDG 0909078. The field duplicate pairs were FC-DUP04-20090909 / FC-MW-05S-20090909 (SDG 0909026) and FC-DUP05-20090910 / FC-MW-04I-20090910 (SDG 0909078).

The samples were collected by Tetra Tech on September 8, 9, and 10, 2009 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
*	• GCMS System Tuning and Performance
	• Initial/continuing calibrations
*	• Laboratory Control Sample Recoveries
	• Laboratory Method Blank Results
*	• Surrogate Spike Recoveries
*	• Internal Standard 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 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)
Bromomethane [1]	0.81	4.05
Acetone [1]	6.8	68.0
2-Hexanone [1]	5.2	26.0
Naphthalene [1]	2.0	10.0
Chloroethane [2]	0.90	4.50
2-Hexanone [2]	4.4	22.0
Naphthalene [2]	1.7	8.5

[1] Method blank VBLKJE analyzed on 09/18/09 affecting samples SA-MW-129D-20090908, SA-TB03-20090908, ET-MW-01S-20090908, ET-MW-02S-20090908, ET-MW-03S-20090908, SA-RB02-20090908, FC-MW-07S-20090909, and SA-PZ-120S-20090909.

[2] Method blank VBLKJM analyzed on 09/22/09 affecting samples FC-DUP04-20090909, SA-FB02-20090909, FC-MW-06S-20090909, FC-MW-01S-20090908, FC-MW-01I-20090910, FC-MW-08S-20090910, FC-DUP05-20090910, and FC-TB04-20090910.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant acetone and 5X for other volatile compounds was established to evaluate laboratory blank contamination. 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 %D was greater than the 20% quality control limit but was less than 90% for bromomethane, trichlorofluoromethane, and methyl acetate for instrument 5972HP59 on 09/18/09 @ 11:36 affecting samples SA-MW-129D-20090908, SA-TB03-20090908, ET-MW-01S-20090908, ET-MW-02S-20090908, ET-MW-03S-20090908, SA-RB02-20090908, FC-MW-07S-20090909, and SA-PZ-120S-20090909. All aforementioned samples had non-detected results for these analytes which were qualified estimated, (UJ).

The continuing calibration verification %D was greater than the 20% quality control limit but was less than 90% for trichlorofluoromethane for instrument 5972HP59 on 09/22/09 @ 11:56 affecting samples FC-DUP04-20090909, SA-FB02-20090909, FC-MW-06S-20090909, FC-MW-01S-20090908, FC-MW-01I-20090910, FC-MW-08S-20090910, FC-DUP05-20090910, and FC-TB04-20090910. All aforementioned samples had non-detected results for these analytes which were qualified estimated, (UJ).

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) relative percent difference (RPD) was greater than the quality control limit for acetone for the LCS/LCSD VJELCS. No action was taken as both the LCS and LCSD acetone % recoveries were within the quality control limits.

The matrix spike (MS) % recovery for trichlorofluoromethane was greater than the quality control limit for the MS/MS duplicate (MSD) for sample FC-MW-07S-20090909. No action was taken as the MSD had a within the quality control limit % recovery for trichlorofluoromethane and the RPD for the MS/MSD was within the quality control limits.

The initial data reported by the laboratory did not include all the VOC sample analytes listed in the Sample Analysis Program (SAP) and had to be resubmitted by the laboratory with the amended forms.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Acetone, bromomethane, 2-hexanone, chloroethane, and naphthalene were detected in method blanks resulting in sample data qualification. Continuing calibration verification %D exceedances resulted in sample data qualification of non-detected results.

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	ET-MW-01S-20090908			ET-MW-02S-20090908			ET-MW-03S-20090908			FC-DUP04-20090909		
SDG: 0909058	LAB_ID	0909058-04			0909058-06			0909058-05			0909058-09		
FRACTION: OV	SAMP_DATE	9/8/2009			9/8/2009			9/8/2009			9/9/2009		
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-05S-20090909		
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		5.2	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	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		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	FC-DUP05-20090910			FC-MW-01I-20090910			FC-MW-01S-20090910			FC-MW-06S-20090909		
SDG: 0909058	LAB_ID	0909058-15			0909058-13			0909058-12			0909058-11		
FRACTION: OV	SAMP_DATE	9/10/2009			9/10/2009			9/10/2009			9/9/2009		
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-04I-20090910											
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		5.4	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		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	FC-MW-07S-20090909			FC-MW-08S-20090910			FC-TB04-20090910			SA-FB02-20090909		
SDG: 0909058	LAB_ID	0909058-01			0909058-14			0909058-16			0909058-10		
FRACTION: OV	SAMP_DATE	9/9/2009			9/10/2009			9/10/2009			9/9/2009		
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		7.3	J	P	13	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		4.3	J	P
BROMOFORM		5	U		5	U		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		5	U		5	U		4.8	J	P
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U		3.4	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	SA-MW-129D-20090908			SA-PZ-120S-20090909			SA-RB02-20090908			SA-TB03-20090908		
SDG: 0909058	LAB_ID	0909058-02			0909058-08			0909058-07			0909058-03		
FRACTION: OV	SAMP_DATE	9/8/2009			9/9/2009			9/8/2009			9/8/2009		
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		11	J	P	5.7	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	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	ET-MW-01S-20090908			ET-MW-02S-20090908			ET-MW-03S-20090908			FC-DUP04-20090909		
SDG: 0909058	LAB_ID	0909058-04			0909058-06			0909058-05			0909058-09		
FRACTION: OV	SAMP_DATE	9/8/2009			9/8/2009			9/8/2009			9/9/2009		
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-05S-20090909		
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	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		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	FC-DUP05-20090910			FC-MW-01I-20090910			FC-MW-01S-20090910			FC-MW-06S-20090909		
SDG: 0909058	LAB_ID	0909058-15			0909058-13			0909058-12			0909058-11		
FRACTION: OV	SAMP_DATE	9/10/2009			9/10/2009			9/10/2009			9/9/2009		
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-04I-20090910											
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	
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	FC-MW-07S-20090909			FC-MW-08S-20090910			FC-TB04-20090910			SA-FB02-20090909		
SDG: 0909058	LAB_ID	0909058-01			0909058-14			0909058-16			0909058-10		
FRACTION: OV	SAMP_DATE	9/9/2009			9/10/2009			9/10/2009			9/9/2009		
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	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		1.6	J	P
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-MW-129D-20090908			SA-PZ-120S-20090909			SA-RB02-20090908			SA-TB03-20090908		
SDG: 0909058	LAB_ID	0909058-02			0909058-08			0909058-07			0909058-03		
FRACTION: OV	SAMP_DATE	9/8/2009			9/9/2009			9/8/2009			9/8/2009		
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		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		0.84	J	P	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	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**DECEMBER 7, 2009**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOCs, OVG**
CTO 160 NWIRP CALVERTON
SAMPLE DELIVERY GROUPS (SDG) – 0909078

SAMPLES: 11/Aqueous/

FC-MW-04I-20090910	FC-MW-04S-20090910
FC-MW-07I-20090915	SA-DUP06-20090914
SA-MW-130I-20090915	SA-MW-130S-20090915
SA-MW-131D-20090914	SA-MW-131I-20090914
SA-MW-131S-20090914	SA-MW-132I-20090914
SA-MW-132S-20090914	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 0909078, consists of eleven (11) aqueous environmental samples. One (1) field duplicate pair (SA-MW-132I-20090914 / SA-DUP06-20090914) was included within this SDG.

All samples were analyzed for volatile organic compounds (VOCs). Samples FC-MW-04I-090910, FC-MW-04S-20090910, SA-MW-130I-20090915, SA-MW-130S-20090915, SA-MW-131D-090914, SA-MW-131I-20090914, SA-MW-131S-20090914, SA-MW-132I-20090914 and SA-MW-132S-20090914 were also analyzed for organic volatile gases: ethane, ethane and methane. The samples were collected by Tetra Tech NUS on September 10, 14 and 15, 2009 and analyzed by CompuChem under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. VOC analyses were conducted using SW-846 method 8260B. OVG analyses were conducted using method RSK 175.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • GC/MS Tuning
• Initial and Continuing Calibration Verification Results
• Laboratory Method Blank Analyses
* • Surrogate Spike Recoveries
* • Internal Standard Recoveries
* • Laboratory Control Standard Results
* • Matrix Spike / Matrix Spike Duplicate Results
* • Detection Limits
* • Field Duplicate Precision
* • Compound Quantitation
* • Compound Identification

* - All quality control criteria were met for this parameter.

VOCs

The continuing calibration percent difference on 09/22/09 @ 11:56 instrument 5972HP59 for trichlorofluoromethane was > 20% quality control limit affecting samples FC-MW-04I-20090910, FC-MW-04S-20090910, SA-MW-132S-20090914, SA-MW-132I-20090914, SA-DUP06-20090914 and SA-MW-131S-20090914. The nondetected results reported for trichlorofluoromethane in the affected samples were qualified as estimated, "UJ".

The continuing calibration percent differences on 09/23/09 @ 18:40 instrument 5972HP59 for trichlorofluoromethane, dichlorodifluoromethane, methyl acetate and acetone were > 20% quality control limit affecting samples SA-MW-131D-20090914, SA-MW-131I-20090914, SA-MW-130I-20090915, SA-MW-130S-20090915 and FC-MW-07I-20090915. The nondetected results reported for the aforementioned compounds in the affected samples were qualified as estimated, "UJ".

The following contaminants were detected in the laboratory method blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Acetone[2]	10.0 ug/L	100 ug/L
Chloroethane[1]	0.9 ug/L	4.5 ug/L
2-hexanone[1]	4.4 ug/L	20 ug/L
Naphthalene[1]	1.7 ug/L	8.5 ug/L
Naphthalene[2]	2.0 ug/L	10.0 ug/L

(1) Maximum concentration present in a method blank affecting samples FC-MW-04I-20090910, FC-MW-04S-20090910, SA-MW-132S-20090914, SA-MW-132I-20090914, SA-DUP06-20090914 and SA-MW-131S-20090914.

(2) Maximum concentration present in a method blank affecting samples SA-MW-131D-20090914, SA-MW-131I-20090914, SA-MW-130I-20090915, SA-MW-130S-20090915 and FC-MW-07I-20090915.

An action level of five times (5X) the maximum contaminant level (10X for common laboratory contaminants) has been used to evaluate sample data for blank contamination, Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level for acetone and naphthalene were qualified (U) and the results were reported to the CRQL as a result of blank contamination.

Positive results below the reporting limit (RL) for the organic analyses but greater than the method detection limit (MDL) were qualified as estimated, "J".

OVG

Positive results below the RL for the organic analyses but greater than the MDL were qualified as estimated, "J".

Notes

The matrix spike / matrix spike duplicate percent recoveries for chloromethane and trichlorofluoromethane were greater than the quality control limits for sample SA-MW-132S-20090914. No validation actions were warranted as all sample results were nondetects.

The matrix spike / matrix spike duplicate relative percent difference for acetone was > the quality control limit affecting sample SA-MW-132S-20090914. However, no validation actions are required for matrix spike / matrix spike duplicate relative percent difference noncompliances.

Executive Summary

Laboratory Performance: Acetone and naphthalene were present in the method blanks. Minor compliance issues were noted.

Other Factors Affecting Data Quality: Positive results below the RL for the organic analyses but greater than the MDL were qualified as estimated, "J".

The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846/8260B 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.

Terri L. Solomon

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Region II Worksheets
3. 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 DOT 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-04I-20090910			FC-MW-04S-20090910			FC-MW-07I-20090915			SA-DUP06-20090914		
SDG: 0909078	LAB_ID	0909078-01			0909078-02			0909078-11			0909078-05		
FRACTION: OV	SAMP_DATE	9/10/2009			9/10/2009			9/15/2009			9/14/2009		
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-132I-20090914		
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		5.1		
1,1-DICHLOROETHENE		5	U		5	U		5	U		1.1	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		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	A	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	UJ	C	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-MW-130I-20090915			SA-MW-130S-20090915			SA-MW-131D-20090914			SA-MW-131I-20090914		
SDG: 0909078	LAB_ID	0909078-09			0909078-10			0909078-07			0909078-08		
FRACTION: OV	SAMP_DATE	9/15/2009			9/15/2009			9/14/2009			9/14/2009		
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		1.5	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	A	9	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		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	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
ETHYLBENZENE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-MW-131S-20090914			SA-MW-132I-20090914			SA-MW-132S-20090914		
SDG: 0909078	LAB_ID	0909078-06			0909078-04			0909078-03		
FRACTION: OV	SAMP_DATE	9/14/2009			9/14/2009			9/14/2009		
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		5.4			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		5.2	J	P	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		2.9	J	P
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	FC-MW-04I-20090910			FC-MW-04S-20090910			FC-MW-07I-20090915			SA-DUP06-20090914		
SDG: 0909078	LAB_ID	0909078-01			0909078-02			0909078-11			0909078-05		
FRACTION: OV	SAMP_DATE	9/10/2009			9/10/2009			9/15/2009			9/14/2009		
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-132I-20090914		
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	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		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	UJ	C	5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-MW-130I-20090915			SA-MW-130S-20090915			SA-MW-131D-20090914			SA-MW-131I-20090914		
SDG: 0909078	LAB_ID	0909078-09			0909078-10			0909078-07			0909078-08		
FRACTION: OV	SAMP_DATE	9/15/2009			9/15/2009			9/14/2009			9/14/2009		
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		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		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-MW-131S-20090914			SA-MW-132I-20090914			SA-MW-132S-20090914		
SDG: 0909078	LAB_ID	0909078-06			0909078-04			0909078-03		
FRACTION: OV	SAMP_DATE	9/14/2009			9/14/2009			9/14/2009		
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		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		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	FC-MW-04I-20090910			FC-MW-04S-20090910			SA-MW-130I-20090915			SA-MW-130S-20090915		
SDG: 0909078	LAB_ID	0909078-01			0909078-02			0909078-09			0909078-10		
FRACTION: OVG	SAMP_DATE	9/10/2009			9/10/2009			9/15/2009			9/15/2009		
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		2	U		2	U		2	U		2	U	
ETHENE		2	U		2	U		2	U		2	U	
METHANE		0.3	J	P	4			0.2	J	P	9		

PROJ_NO: 01655	NSAMPLE	SA-MW-131D-20090914			SA-MW-131D-20090914-DL			SA-MW-131I-20090914			SA-MW-131S-20090914		
SDG: 0909078	LAB_ID	0909078-07			0909078-07			0909078-08			0909078-06		
FRACTION: OVG	SAMP_DATE	9/14/2009			9/14/2009			9/14/2009			9/14/2009		
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		2	U					2	U		2	U	
ETHENE		2	U					2	U		2	U	
METHANE					12			4			7		

PROJ_NO: 01655	NSAMPLE	SA-MW-132I-20090914			SA-MW-132S-20090914		
SDG: 0909078	LAB_ID	0909078-04			0909078-03		
FRACTION: OVG	SAMP_DATE	9/14/2009			9/14/2009		
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
ETHANE		2	U		2	U	
ETHENE		2	U		2	U	
METHANE		18			7		

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**NOVEMBER 30, 2009**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOCs**
CTO 160 NWIRP CALVERTON
SAMPLE DELIVERY GROUPS (SDG) – 0909124

SAMPLES: 7/Aqueous/

CA-PRSC-01-20090916
CA-PRSC-02-01-20090916
CA-PRSC-02-02-20090916
CA-PRSC-02-03-20090916
CA-PRSC-03-20090916
CA-PRSC-04-20090916
CA-PRSC-DUP01-20090916

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 0909124, consists of seven (7) aqueous environmental samples. One (1) field duplicate pair (CA-PRSC-03-20090916 / CA-PRSC-DUP01-20090916) was included within this SDG.

All samples were analyzed for volatile organic compounds (VOCs). The samples were collected by Tetra Tech NUS on September 16, 2009 and analyzed by CompuChem under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. VOC analyses were conducted using SW-846 method 8260B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • GC/MS Tuning
• Initial and Continuing Calibration Verification Results
• Laboratory Method Blank Analyses
* • Surrogate Spike Recoveries
• Internal Standard Recoveries
• Laboratory Control Standard Results
* • Matrix Spike / Matrix Spike Duplicate Results
* • Detection Limits
* • Field Duplicate Precision
* • Compound Quantitation
* • Compound Identification

* - All quality control criteria were met for this parameter.

VOCs

The continuing calibration percent differences on 09/23/09 @ 18:40 instrument 5972HP59 for trichlorofluoromethane, dichlorodifluoromethane, methyl acetate and acetone were > 20% quality control limit affecting sample CA-PRSC-01-20090916. Nondetected results in the associated sample were qualified as estimated, UJ.

The continuing calibration percent differences on 09/30/09 @ 15:28 instrument 5972HP59 for chloromethane, methyl acetate, 2-butanone and 1,2-dibromo-3-chloropropane were > 20% quality control limit affecting samples CA-PRSC-03-20090916, CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916. Nondetected results in the associated samples were qualified as estimated, UJ.

The following contaminants were detected in the laboratory method blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Acetone(1)	10 ug/L	100 ug/L
Naphthalene(1)	2.0 ug/L	10.0 ug/L
Naphthalene(2)	4.8 ug/L	24 ug/L
Naphthalene(3)	2.9 ug/L	14.5 ug/L

(1) Maximum concentration present in a method blank affecting sample CA-PRSC-01-20090916.
(2) Maximum concentration present in a method blank affecting samples CA-PRSC-03-20090916, CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916.
(3) Maximum concentration present in a method blank affecting samples CA-PRSC-02-01-20090916, CA-PRSC-02-02-20090916 and CA-PRSC-02-03-20090916.

An action level of five times (5X) the maximum contaminant level (10X for common laboratory contaminants) has been used to evaluate sample data for blank contamination, Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level for naphthalene were qualified (U).

The internal standard recoveries for 1,4-dichlorobenzene-d4 were below the quality control limits for samples CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916. The internal standard recovery for chlorobenzene-d5 was below the quality control limits for sample CA-PRSC-DUP01-20090916. The nondetected results for the affected compounds were qualified as estimated, "UJ".

Notes

It was noted in the case narrative that samples CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916 were reanalyzed outside of holding time as a result of internal standard recoveries. The original analyses were selected for validation purposes.

The laboratory control standard and/or laboratory control standard duplicate percent recoveries for methyl acetate, acetone, 4-methyl-2-pentanone, 2-butanone and 2-hexanone were above the quality control limits affecting samples CA-PRSC-03-20090916, CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916. No validation actions were warranted because all sample results were nondetects.

The laboratory control standard / laboratory control standard duplicate relative percent difference for dichlorodifluoromethane was > the quality control limit affecting samples CA-PRSC-03-

20090916, CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916. However, no validation actions are required for laboratory control standard / laboratory control standard duplicate relative percent difference noncompliances.

Executive Summary

Laboratory Performance: A few minor calibration verification noncompliances were noted. Naphthalene was present in the laboratory method blanks.

Other Factors Affecting Data Quality: The internal standard recoveries for 1,4-dichlorobenzene-d4 and/or chlorobenzene-d5 were below the quality control limits for samples CA-PRSC-04-20090916 and CA-PRSC-DUP01-20090916.

The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846/8260B 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.

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Region II Worksheets
3. 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 DOT 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-01-20090916			CA-PRSC-02-01-20090916			CA-PRSC-02-02-20090916			CA-PRSC-02-03-20090916		
SDG: 0909124	LAB_ID	0909124-01			0909124-02			0909124-03			0909124-04		
FRACTION: OV	SAMP_DATE	9/16/2009			9/16/2009			9/16/2009			9/16/2009		
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			1.2	J	P	5	U	
1,1-DICHLOROETHENE		5	U		6			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	UJ	C	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		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	UJ	C	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-03-20090916			CA-PRSC-04-20090916			CA-PRSC-DUP01-20090916		
SDG: 0909124	LAB_ID	0909124-05			0909124-06			0909124-07		
FRACTION: OV	SAMP_DATE	9/16/2009			9/16/2009			9/16/2009		
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-03-20090916		
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	UJ	N
1,1,2-TRICHLOROETHANE		5	U		5	U		5	UJ	N
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	UJ	N	5	UJ	N
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	C	5	UJ	CN	5	UJ	CN
1,2-DIBROMOETHANE		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	U		5	UJ	N	5	UJ	N
1,2-DICHLOROETHANE		5	U		5	U		5	UJ	N
1,2-DICHLOROPROPANE		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	UJ	N	5	UJ	N
1,4-DICHLOROBENZENE		5	U		5	UJ	N	5	UJ	N
2-BUTANONE		13	U		13	UJ	C	13	UJ	C
2-HEXANONE		13	UJ	C	13	U		13	UJ	N
4-METHYL-2-PENTANONE		13	U		13	U		13	UJ	N
ACETONE		13	U		13	U		13	U	
BENZENE		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	UJ	N
BROMOFORM		5	U		5	U		5	UJ	N
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	UJ	N
CHLORODIBROMOMETHANE		5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U	
CHLOROFORM		5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	5	UJ	C	5	UJ	C
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	UJ	N
ISOPROPYLBENZENE		5	U		5	U		5	UJ	N

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01-20090916			CA-PRSC-02-01-20090916			CA-PRSC-02-02-20090916			CA-PRSC-02-03-20090916		
SDG: 0909124	LAB_ID	0909124-01			0909124-02			0909124-03			0909124-04		
FRACTION: OV	SAMP_DATE	9/16/2009			9/16/2009			9/16/2009			9/16/2009		
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	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	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03-20090916			CA-PRSC-04-20090916			CA-PRSC-DUP01-20090916		
SDG: 0909124	LAB_ID	0909124-05			0909124-06			0909124-07		
FRACTION: OV	SAMP_DATE	9/16/2009			9/16/2009			9/16/2009		
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-03-20090916		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		10	U		10	U		10	UJ	N
METHYL ACETATE		5	UJ	C	5	UJ	C	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		5	U		5	U	
NAPHTHALENE		6.9	U	A	5	U	A	5	UJ	N
O-XYLENE		5	U		5	U		5	UJ	N
STYRENE		5	U		5	U		5	UJ	N
TETRACHLOROETHENE		5	U		5	U		5	UJ	N
TOLUENE		5	U		5	U		5	UJ	N
TOTAL 1,2-DICHLOROETHENE		5	U		5	U		5	U	
TOTAL XYLENES		5	U		5	U		5	UJ	N
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	UJ	N
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:**	**DECEMBER 11, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0909144**		

SAMPLES: 7 / Aqueous / VOC

SA-PZ-124-20090917	SA-PZ-125-20090917	SA-SW-124-20090917
SA-SW-125-20090917	SA-SW-201-20090917	SA-SW-204-20090917
SA-SW-DUP01-20090917		

Overview

The sample set for NWIRP Calverton, SDG 0909144 consists of seven (7) aqueous environmental samples including one (1) field duplicate sample. The aqueous samples were analyzed for volatile organic compounds (VOC). There was one field duplicate pair associated with this sample data group (SDG); SA-SW-DUP01-20090917 / SA-SW-201-20090917.

The samples were collected by Tetra Tech on September 17, 2009 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
*	•	GCMS System Tuning and Performance
*	•	Initial/continuing calibrations
*	•	Laboratory Control Sample Recoveries
	•	Laboratory Method Blank Results
*	•	Surrogate Spike Recoveries
*	•	Internal Standard 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 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)
Methylene chloride [1]	0.97	9.70
Naphthalene [2]	1.7	17.0

[1] Method blank VBLKLD affecting SA-SW-204MSD, VLDLCS, and VLDLCSD.
[2] Method blank VBLKLN affecting samples SA-PZ-124-20090917, SA-PZ-125-20090917, SA-SW-124-20090917, SA-SW-125-20090917, SA-SW-201-20090917, SA-SW-204-20090917, and SA-SW-DUP01-20090917.

An action level of 10X the maximum concentration for the common laboratory contaminant methylene chloride and 5X for other volatile compounds was established to evaluate laboratory contamination. 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

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: Naphthalene was detected in the laboratory method blank resulting in sample data qualification for the positive naphthalene result for sample SA-SW-204-20090917.

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).

For 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-PZ-124-20090917			SA-PZ-125-20090917			SA-SW-124-20090917			SA-SW-125-20090917		
SDG: 0909144	LAB_ID	0909144-05			0909144-03			0909144-04			0909144-02		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/17/2009			9/17/2009		
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		17			5	U		5	U		5	U	
1,1-DICHLOROETHENE		1.7	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	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		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-SW-201-20090917			SA-SW-204-20090917			SA-SW-DUP01-20090917		
SDG: 0909144	LAB_ID	0909144-06			0909144-01			0909144-07		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/17/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF							SA-SW-201-20090917		
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		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	

PROJ_NO: 01655	NSAMPLE	SA-PZ-124-20090917			SA-PZ-125-20090917			SA-SW-124-20090917			SA-SW-125-20090917		
SDG: 0909144	LAB_ID	0909144-05			0909144-03			0909144-04			0909144-02		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/17/2009			9/17/2009		
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	
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-SW-201-20090917			SA-SW-204-20090917			SA-SW-DUP01-20090917		
SDG: 0909144	LAB_ID	0909144-06			0909144-01			0909144-07		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/17/2009		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF							SA-SW-201-20090917		
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		5	U		5	U	
NAPHTHALENE		5	U		5	U	A	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		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:**	**DECEMBER 4, 2009**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOCs**
CTO 160 NWIRP CALVERTON
SAMPLE DELIVERY GROUPS (SDG) – 0909145

SAMPLES: 5/Sediment/

SA-SD-124-20090917 SA-SD-125-20090917
SA-SD-201-20090917 SA-SD-204-20090917
SA-SD-DUP01-20090917

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 0909145, consists of five (5) sediment environmental samples. One (1) field duplicate pair (SA-SD-201-20090917 / SA-SD-DUP01-20090917) was included within this SDG.

All samples were analyzed for volatile organic compounds (VOCs). The samples were collected by Tetra Tech NUS on September 17, 2009 and analyzed by CompuChem under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. VOC analyses were conducted using SW-846 method 8260B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • GC/MS Tuning
• Initial and Continuing Calibration Verification Results
* • Laboratory Method Blank Analyses
• Surrogate Spike Recoveries
• Internal Standard Recoveries
• Laboratory Control Standard Results
* • Detection Limits
* • Field Duplicate Precision
* • Compound Quantitation
* • Compound Identification

* - All quality control criteria were met for this parameter.

VOCs

The percent solids were < 30% for sample SA-SD-124-20090917. The positive and nondetected results were qualified as estimated, "J" and "UJ", respectively.

The surrogate recovery for toluene-d8 and bromofluorobenzene were greater than the quality control limits for sample SA-SD-124-20090917. The positive result reported for acetone was qualified as estimated, "J".

The laboratory control standard percent recovery for methyl acetate was below the quality control limit. The nondetected results reported for methyl acetate were qualified as estimated, "UJ".

The internal standard 1,4-dichlorobenzene-d4 was below the quality control limit for samples SA-SD-125-20090917, SA-SD-201-20090917, SA-SD-DUP01-20090917 and SA-SD-124-20090917. The internal standard chlorobenzene-d5 was below the quality control limit for sample SA-SD-124-20090917. The nondetected results for the affected compounds were qualified as estimated, "UJ".

Notes

It was noted in the case narrative that the laboratory reanalyzed all of the samples outside hold time due to the initial calibration not meeting laboratory criteria. The original analyses were selected for validation purposes.

The initial calibration relative percent differences on 10/01/09 instrument 5972HP59 for chloromethane and bromomethane were > 20% quality control limit affecting all samples. No validation actions were warranted as all sample results were nondetects.

The laboratory control standard percent recovery for methylene chloride was greater than the quality control limit. No validation actions were warranted as all sample results were nondetects.

Executive Summary

Laboratory Performance: The laboratory control standard percent recovery for methyl acetate was below the quality control limit.

Other Factors Affecting Data Quality: The percent solids were < 30% for sample SA-SD-124-20090917. The surrogate recovery for toluene-d8 and bromofluorobenzene were greater than the quality control limits for sample SA-SD-124-20090917. The internal standards 1,4-dichlorobenzene-d4 and / or chlorobenzene-d5 were below the quality control limit.

The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846/8260B 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.

Terri L. Solomon

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Region II Worksheets
3. 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 DOT 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 SDG: 0909145 FRACTION: OV MEDIA: SEDIMENT	NSAMPLE	SA-SD-124-20090917			SA-SD-125-20090917			SA-SD-201-20090917			SA-SD-204-20090917		
	LAB_ID	0909145-03			0909145-02			0909145-04			0909145-01		
	SAMP_DATE	9/17/2009			9/17/2009			9/17/2009			9/17/2009		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	24.0			64.0			75.0			73.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,1,2,2-TETRACHLOROETHANE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
1,1,2-TRICHLOROETHANE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,1-DICHLOROETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,1-DICHLOROETHENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,1-DICHLOROPROPENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,2,4-TRICHLOROBENZENE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
1,2-DIBROMO-3-CHLOROPROPANE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
1,2-DIBROMOETHANE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
1,2-DICHLOROBENZENE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
1,2-DICHLOROETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,2-DICHLOROPROPANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
1,3-DICHLOROBENZENE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
1,4-DICHLOROBENZENE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
2-BUTANONE		52	UJ	Y	20	U		17	U		17	U	
2-HEXANONE		52	UJ	NY	20	U		17	U		17	U	
4-METHYL-2-PENTANONE		52	UJ	NY	20	U		17	U		17	U	
ACETONE		310	J	RY	20	U		17	U		17	U	
BENZENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
BROMODICHLOROMETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
BROMOFORM		21	UJ	NY	7.8	U		6.7	U		6.8	U	
BROMOMETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CARBON DISULFIDE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CARBON TETRACHLORIDE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CHLOROBENZENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
CHLORODIBROMOMETHANE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
CHLOROETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CHLOROFORM		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CHLOROMETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CIS-1,2-DICHLOROETHENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CIS-1,3-DICHLOROPROPENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
CYCLOHEXANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
DICHLORODIFLUOROMETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
ETHYLBENZENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
ISOPROPYLBENZENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-124-20090917			SA-SD-125-20090917			SA-SD-201-20090917			SA-SD-204-20090917		
SDG: 0909145	LAB_ID	0909145-03			0909145-02			0909145-04			0909145-01		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/17/2009			9/17/2009		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	24.0			64.0			75.0			73.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
M+P-XYLENES		42	UJ	NY	16	U		13	U		14	U	
METHYL ACETATE		21	UJ	EY	7.8	UJ	E	6.7	UJ	E	6.8	UJ	E
METHYL CYCLOHEXANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
METHYL TERT-BUTYL ETHER		21	UJ	Y	7.8	U		6.7	U		6.8	U	
METHYLENE CHLORIDE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
NAPHTHALENE		21	UJ	NY	7.8	UJ	N	6.7	UJ	N	6.8	U	
O-XYLENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
STYRENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
TETRACHLOROETHENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
TOLUENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
TOTAL 1,2-DICHLOROETHENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
TOTAL XYLENES		21	UJ	NY	7.8	U		6.7	U		6.8	U	
TRANS-1,2-DICHLOROETHENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
TRANS-1,3-DICHLOROPROPENE		21	UJ	NY	7.8	U		6.7	U		6.8	U	
TRICHLOROETHENE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
TRICHLOROFLUOROMETHANE		21	UJ	Y	7.8	U		6.7	U		6.8	U	
VINYL CHLORIDE		21	UJ	Y	7.8	U		6.7	U		6.8	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01-20090917		
SDG: 0909145	LAB_ID	0909145-05		
FRACTION: OV	SAMP_DATE	9/17/2009		
MEDIA: SEDIMENT	QC_TYPE	NM		
	UNITS	UG/KG		
	PCT_SOLIDS	79.0		
	DUP_OF	SA-SD-201-20090917		
PARAMETER		RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE		6.3	U	
1,1,2,2-TETRACHLOROETHANE		6.3	UJ	N
1,1,2-TRICHLOROETHANE		6.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		6.3	U	
1,1-DICHLOROETHANE		6.3	U	
1,1-DICHLOROETHENE		6.3	U	
1,1-DICHLOROPROPENE		6.3	U	
1,2,4-TRICHLOROBENZENE		6.3	UJ	N
1,2-DIBROMO-3-CHLOROPROPANE		6.3	UJ	N
1,2-DIBROMOETHANE		6.3	U	
1,2-DICHLOROBENZENE		6.3	UJ	N
1,2-DICHLOROETHANE		6.3	U	
1,2-DICHLOROPROPANE		6.3	U	
1,3-DICHLOROBENZENE		6.3	UJ	N
1,4-DICHLOROBENZENE		6.3	UJ	N
2-BUTANONE		16	U	
2-HEXANONE		16	U	
4-METHYL-2-PENTANONE		16	U	
ACETONE		16	U	
BENZENE		6.3	U	
BROMODICHLOROMETHANE		6.3	U	
BROMOFORM		6.3	U	
BROMOMETHANE		6.3	U	
CARBON DISULFIDE		6.3	U	
CARBON TETRACHLORIDE		6.3	U	
CHLOROBENZENE		6.3	U	
CHLORODIBROMOMETHANE		6.3	U	
CHLOROETHANE		6.3	U	
CHLOROFORM		6.3	U	
CHLOROMETHANE		6.3	U	
CIS-1,2-DICHLOROETHENE		6.3	U	
CIS-1,3-DICHLOROPROPENE		6.3	U	
CYCLOHEXANE		6.3	U	
DICHLORODIFLUOROMETHANE		6.3	U	
ETHYLBENZENE		6.3	U	
ISOPROPYLBENZENE		6.3	U	

PROJ_NO: 01655	NSAMPLE	SA-SD-DUP01-20090917		
SDG: 0909145	LAB_ID	0909145-05		
FRACTION: OV	SAMP_DATE	9/17/2009		
MEDIA: SEDIMENT	QC_TYPE	NM		
	UNITS	UG/KG		
	PCT_SOLIDS	79.0		
	DUP_OF	SA-SD-201-20090917		
PARAMETER		RESULT	VQL	QLCD
M+P-XYLENES		13	U	
METHYL ACETATE		6.3	UJ	E
METHYL CYCLOHEXANE		6.3	U	
METHYL TERT-BUTYL ETHER		6.3	U	
METHYLENE CHLORIDE		6.3	U	
NAPHTHALENE		6.3	UJ	N
O-XYLENE		6.3	U	
STYRENE		6.3	U	
TETRACHLOROETHENE		6.3	U	
TOLUENE		6.3	U	
TOTAL 1,2-DICHLOROETHENE		6.3	U	
TOTAL XYLENES		6.3	U	
TRANS-1,2-DICHLOROETHENE		6.3	U	
TRANS-1,3-DICHLOROPROPENE		6.3	U	
TRICHLOROETHENE		6.3	U	
TRICHLOROFLUOROMETHANE		6.3	U	
VINYL CHLORIDE		6.3	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**DECEMBER 11, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0909027**		

SAMPLES: 22 / Aqueous / VOC

FT-MW-01I-20090901	FT-MW-01S-20090901	FT-MW-03S-20090901
FT-MW-04S-20090902	FT-MW-06I-20090901	FT-MW-06S-20090901
FT-MW-07S-20090901	FT-MW-08I-20090901	FT-MW-08S-20090901
FT-RB01-20090902	FT-TB01-20090831	SA-DUP03-20090903
SA-FB01-20090902	SA-MW-126D-20090903	SA-MW-126I-20090903
SA-MW-126S-20090903	SA-MW-129I-20090904	SA-MW-129S-20090903
SA-PZ-122D-20090903	SA-PZ-122I-20090902	SA-PZ-122S-20090902
SA-TB02-20090903		

Overview

The sample set for NWIRP Calverton, SDG 0909027 consists of twenty-two (22) aqueous environmental samples including two (2) trip blanks, one (1) rinse blank, one (1) field blank, and one (1) field duplicate sample. The aqueous samples were analyzed for volatile organic compounds (VOC). There was one field duplicate sample associated with this sample data group (SDG) and one field duplicate sample associated with SDG 0909026; SA-DUP03-20090903 / SA-MW-128D-20090903 (SDG 0909026).

The samples were collected by Tetra Tech on August 25, 31, and September 1, 2, 3, and 4, 2009 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
*	• GCMS System Tuning and Performance
	• Initial/continuing calibrations
	• Laboratory Control Sample Recoveries
	• Laboratory Method Blank Results
*	• Surrogate Spike Recoveries
	• Internal Standard 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 following compounds were detected in the associated method blank at the maximum concentrations as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene chloride [1]	1.0	10.0
Naphthalene [2]	2.9	14.5
Naphthalene [3]	4.4	22.0

[1] Method blank VBLKIT affecting samples FT-MW-01I-20090901, FT-MW-01S-20090901, FT-MW-03S-20090901, FT-MW-06I-20090901, FT-MW-06S-20090901, FT-MW-07S-20090901, FT-MW-08I-20090901, FT-MW-08S-20090901, and FT-TB01-20090831.

[2] Method blank VBLKJB affecting samples FT-RB01-20090902, FT-MW-04S-20090902, SA-PZ-122I-20090902, SA-PZ-122S-20090902, and SA-FB01-20090902.

[3] Method blank VBLKJC affecting samples SA-MW-126D-20090903, SA-MW-126I-20090903, SA-MW-126S-20090903, SA-MW-129I-20090904, SA-MW-129S-20090903, SA-PZ-122D-20090903, SA-DUP03-20090903, and SA-TB02-20090903.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant methylene chloride and 5X for naphthalene 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).

Instrument 5972HP59 was not calibrated for 2-chloroethyl vinyl ether, and the continuing calibration, LSC and MS/MSD results for 2-chloroethyl vinyl ether were outside the quality control limits. The samples were acid preserved and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples. All sample results for 2-chloroethyl vinyl ether were non-detected and the sample results were qualified rejected, (UR).

The continuing calibration verification %D exceeded the 20% quality control limit for chloromethane, bromomethane, chloroethane, 2-butanone, 2-hexanone, and 4-methyl-2-pentanone for instrument 5972HP59 on 09/14/09 @ 16:41 affecting samples FT-MW-01I-20090901, FT-MW-01S-20090901, FT-MW-03S-20090901, FT-MW-06I-20090901, FT-MW-06S-20090901, FT-MW-07S-20090901, FT-MW-08I-20090901, FT-MW-08S-20090901, and FT-TB01-20090831. All sample results were non-detected which were qualified estimated, (UJ).

The internal standard % recoveries were less than the quality control limit for 1,4-dichlorobenzene-d4 for samples FT-MW-01I-20090901, FT-MW-01S-20090901, FT-MW-03S-20090901, FT-MW-06I-20090901, FT-MW-08I-20090901, and FT-MW-08S-20090901. The aforementioned samples non-detected results associated with internal standard 1,4-dichlorobenzene-d4 were qualified estimated, (UJ), due to the internal standard quality control non-compliance.

The surrogate % recoveries were greater than the quality control limit for the surrogate 1,2-dichloroethane-d4 for samples FT-MW-01I-20090901, FT-MW-01S-20090901, FT-MW-03S-20090901, FT-MW-06I-20090901, and FT-MW-08I-20090901. The positive trichloroethene result for sample FT-MW-03S-20090901 was qualified estimated, (J), as a result of the surrogate % recovery non-compliance. The remaining samples had non-detected analysis results which were not qualified.

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 initial analysis of samples FT-MW-01I-20090901, FT-MW-01S-20090901, FT-MW-03S-20090901, FT-MW-06I-20090901, FT-MW-08I-20090901, and FT-MW-08S-20090901 had low recoveries for the internal standard 1,4-dichlorobenzene-d4. The samples were re-analyzed with satisfactory internal standard recoveries but were re-analyzed outside the quality control limit hold time of 14 days (<2X the hold time). Additionally, the continuing calibration verification %D exceeded the 20% quality control limit for trichlorofluoromethane and methyl acetate for instrument 5972HP59 on 09/18/09 @ 11:36 affecting the re-analysis of the aforementioned samples. The re-analyzed samples were not used for validating as they exceeded the hold time. The initial analysis results for the aforementioned samples were qualified as stated previously.

The laboratory control sample duplicate (LCSD) VKWLCSD had a % recovery greater than the quality control limit and the relative percent difference was greater than the quality control limit for dichlorodifluoromethane. No samples were qualified as all affected samples had non-detected sample results for dichlorodifluoromethane.

The initial data reported by the laboratory did not include all the VOC sample analytes listed in the Sample Analysis Program (SAP) and had to be resubmitted by the laboratory with the amended forms.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride and naphthalene were detected in method blanks resulting in sample data qualification. Initial and continuing calibration quality control limit non-compliances resulted in the rejection of 2-chloroethyl vinyl ether results for all samples. Sample non-detects were qualified due to internal standard % recovery quality control limit exceedances. The positive trichloroethene result for sample FT-MW-03S-20090901 was qualified estimated, (J), as a result of surrogate % recovery non-compliances.

Other Factors Affecting Data Quality: The samples were preserved with acid which prevents detection of 2-chloroethyl vinyl ether. 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

Edward Hellman / for
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

PROJ_NO: 01655	NSAMPLE	FT-MW-01I-20090901			FT-MW-01S-20090901			FT-MW-03S-20090901			FT-MW-04S-20090902		
SDG: 0909027	LAB_ID	0909027-07			0909027-08			0909027-09			0909027-11		
FRACTION: OV	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			9/2/2009		
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	N	5	UJ	N	5	UJ	N	5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	N	5	UJ	N	5	UJ	N	5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	N	5	UJ	N	5	UJ	N	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	UJ	N	5	UJ	N	5	UJ	N	5	U	
1,4-DICHLOROBENZENE		5	UJ	N	5	UJ	N	5	UJ	N	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	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	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	UJ	C	5	UJ	C	5	UJ	C	5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	5	UJ	C	5	UJ	C	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	FT-MW-06I-20090901			FT-MW-06S-20090901			FT-MW-07S-20090901			FT-MW-08I-20090901		
SDG: 0909027	LAB_ID	0909027-05			0909027-03			0909027-02			0909027-06		
FRACTION: OV	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			9/1/2009		
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	N	5	U		5	U		5	UJ	N
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	N	5	U		5	U		5	UJ	N
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	N	5	U		5	U		5	UJ	N
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	UJ	N	5	U		5	U		5	UJ	N
1,4-DICHLOROBENZENE		5	UJ	N	5	U		5	U		5	UJ	N
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	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	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	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	5	UJ	C	5	UJ	C	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	FT-MW-08S-20090901			FT-RB01-20090902			FT-TB01-20090831			SA-DUP03-20090903		
SDG: 0909027	LAB_ID	0909027-04			0909027-10			0909027-01			0909027-20		
FRACTION: OV	SAMP_DATE	9/1/2009			9/2/2009			8/25/2009			9/3/2009		
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-128D-20090903		
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		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	UJ	N	5	U		5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	N	5	U		5	U		5	U	
1,2-DIBROMOETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	N	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	UJ	N	5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	UJ	N	5	U		5	U		5	U	
2-BUTANONE		13	UJ	C	9.1	J	P	13	UJ	C	13	U	
2-HEXANONE		13	UJ	C	13	U		13	UJ	C	13	U	
4-METHYL-2-PENTANONE		13	UJ	C	13	U		13	UJ	C	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	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	UJ	C	5	U		5	UJ	C	5	U	
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	5	U		5	UJ	C	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-FB01-20090902			SA-MW-126D-20090903			SA-MW-126I-20090903			SA-MW-126S-20090903		
SDG: 0909027	LAB_ID	0909027-14			0909027-17			0909027-18			0909027-19		
FRACTION: OV	SAMP_DATE	9/2/2009			9/3/2009			9/3/2009			9/3/2009		
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		3.6	J	P	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		4.6	J	P	5	U		5	U		5	U	
CHLOROETHANE		5	U		5	U		5	U		5	U	
CHLOROFORM		2.8	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-MW-129I-20090904			SA-MW-129S-20090903			SA-PZ-122D-20090903			SA-PZ-122I-20090902		
SDG: 0909027	LAB_ID	0909027-21			0909027-15			0909027-16			0909027-12		
FRACTION: OV	SAMP_DATE	9/4/2009			9/3/2009			9/3/2009			9/2/2009		
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		2.3	J	P	1.4	J	P	1.8	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		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-HEXANONE		6.9	J	P	13	U		13	U		13	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		5.8	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	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-PZ-122S-20090902			SA-TB02-20090903		
SDG: 0909027	LAB_ID	0909027-13			0909027-22		
FRACTION: OV	SAMP_DATE	9/2/2009			9/3/2009		
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	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	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		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	FT-MW-01I-20090901			FT-MW-01S-20090901			FT-MW-03S-20090901			FT-MW-04S-20090902		
SDG: 0909027	LAB_ID	0909027-07			0909027-08			0909027-09			0909027-11		
FRACTION: OV	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			9/2/2009		
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	UJ	N	5	UJ	N	5	UJ	N	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		2.2	J	PR	5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655 SDG: 0909027 FRACTION: OV MEDIA: WATER	NSAMPLE	FT-MW-06I-20090901			FT-MW-06S-20090901			FT-MW-07S-20090901			FT-MW-08I-20090901		
	LAB_ID	0909027-05			0909027-03			0909027-02			0909027-06		
	SAMP_DATE	9/1/2009			9/1/2009			9/1/2009			9/1/2009		
	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	
NAPHTHALENE		5	UJ	N	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	FT-MW-08S-20090901			FT-RB01-20090902			FT-TB01-20090831			SA-DUP03-20090903		
SDG: 0909027	LAB_ID	0909027-04			0909027-10			0909027-01			0909027-20		
FRACTION: OV	SAMP_DATE	9/1/2009			9/2/2009			8/25/2009			9/3/2009		
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-128D-20090903		
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	UJ	N	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		1	J	P	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 SDG: 0909027 FRACTION: OV MEDIA: WATER	NSAMPLE	SA-FB01-20090902			SA-MW-126D-20090903			SA-MW-126I-20090903			SA-MW-126S-20090903		
	LAB_ID	0909027-14			0909027-17			0909027-18			0909027-19		
	SAMP_DATE	9/2/2009			9/3/2009			9/3/2009			9/3/2009		
	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		1.2	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		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 SDG: 0909027 FRACTION: OV MEDIA: WATER	NSAMPLE	SA-MW-129I-20090904			SA-MW-129S-20090903			SA-PZ-122D-20090903			SA-PZ-122I-20090902		
	LAB_ID	0909027-21			0909027-15			0909027-16			0909027-12		
	SAMP_DATE	9/4/2009			9/3/2009			9/3/2009			9/2/2009		
	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	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		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 SDG: 0909027 FRACTION: OV MEDIA: WATER	NSAMPLE	SA-PZ-122S-20090902			SA-TB02-20090903		
	LAB_ID	0909027-13			0909027-22		
	SAMP_DATE	9/2/2009			9/3/2009		
	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		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		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		5	U	
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:**	**DECEMBER 14, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0909125**		
SAMPLES:	22 / Aqueous / VOC		

SA-FB03-20090915	SA-RB03-20090915	SA-TB05-20090914
SA-TB06-20090917	SA-TW-312-0712-20090914	SA-TW-312-2025-20090914
SA-TW-312-4146-20090914	SA-TW-313-0914-20090922	SA-TW-313-2025-20090922
SA-TW-313-4247-20090922	SA-TW-314-0712-20090915	SA-TW-314-2025-20090915
SA-TW-314-3944-20090915	SA-TW-315-0813-20090916	SA-TW-315-2025-20090916
SA-TW-315-4045-20090916	SA-TW-316-0712-20090917	SA-TW-316-2025-20090917
SA-TW-316-3237-20090917	SA-TW-317-1015-20090918	SA-TW-317-2025-20090918
SA-TW-317-39.544.5-20090921		

Overview

The sample set for NWIRP Calverton, SDG 0909125 consists of twenty-two (22) aqueous environmental samples including two (2) trip blanks, one (1) rinse blank, one (1) field blank, and one (1) field duplicate pair. The aqueous samples were analyzed for volatile organic compounds (VOC). There was one field duplicate sample pair associated with this sample data group (SDG) and SDG 0909208; SA-TW-DUP07-2009022 (SDG 0909208) / SA-TW-313-4247-20090922.

The samples were collected by Tetra Tech on September 14, 15, 16, 17, 18, 21, and 22, 2009 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
- * GCMS System Tuning and Performance
- Initial/continuing calibrations
- * Laboratory Control Sample Recoveries
- Laboratory Method Blank Results
- * Surrogate Spike Recoveries
- * Internal Standard 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

Hold Time

The hold time of 14 days was exceeded (but <2X the hold time) for the re-analysis for samples SA-TW-312-4146-20090914(DL) and SA-TW-316-3237-20090917(DL). These samples were re-analyzed for 1,1-dichloroethane due to the first analysis results exceeding the instrument calibration limit. The positive results for the re-analysis 1,1-dichloroethane results for the aforementioned samples were qualified estimated, (J), due to the hold time exceedance.

Blank

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)
4-Methyl-2-pentanone (1)	10	50
1,2,3-Trichlorobenzene (1)	1.8	9.0
n-Butyl benzene (2)	1.3	6.5
Naphthalene (2)	3.0	15.0
1,2,3-Trichlorobenzene (2)	1.7	8.5
Naphthalene (3)	1.7	8.5

(1) Method blank VBLKKG affecting samples SA-RB03-20090915, SA-FB03-20090915, and the re-analysis dilution of sample SA-TW-312-4146-20090914RE. The rinse and field blanks were not qualified due to method blank contamination.
(2) Method blank VBLKLJ affecting the re-analysis of samples SA-TW-315-0813-20090916RE, SA-TW-315-2025-20090916RE, SA-TW-315-4045-20090916RE, the dilution re-analysis of SA-TW-316-3237-20090917RE, and VLJLCSD.
(3) Method blank VBLKLN affecting samples SA-TB06-20090917, SA-TW-316-0712-20090917, SA-TW-316-2025-20090917, SA-TW-316-3237-20090917, SA-TW-317-1015-20090918, and SA-TW-317-2025-20090918.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant volatile compound was established to evaluate laboratory contamination for the aforementioned compound. 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). There were also contaminant detections in the rinse blank, trip blank, and field blank which were not used to qualify the samples.

Continuing Calibration

The continuing calibration verification %D exceeded the 20% quality control limit but was less than 90% chloromethane for instrument 5972HP59 on 09/29/09 @ 14:07 affecting samples SA-RB03-20090915, SA-FB03-20090915, and SA-TW-312-4146-20090914. All sample results were non-detected for chloromethane which were qualified as estimated, (UJ), due to the %D quality control limit exceedance.

The continuing calibration verification %D exceeded the 20% quality control limit but was less than 90% for chloromethane, methyl iodide, 2-butanone, methylmethacrylate, bromoform, and 1,2-dibromo-3-

chloropropane for instrument 5972HP59 on 09/30/09 @ 15:28 affecting samples SA-TW-315-0813-20090916, SA-TW-315-2025-20090916, and SA-TW-315-4045-20090916. All sample results were non-detected for the aforementioned analytes which were qualified estimated, (UJ), due to the %D quality control limit exceedance.

The continuing calibration verification %D exceeded the 20% quality control limit but was less than 90% for methyl iodide, carbon disulfide, 2,2-dichloropropane, and 1,2,4-trichlorobenzene for instrument 5972HP59 on 10/06/09 @ 12:59 affecting samples SA-TW-313-2025-20090922 and SA-TW-313-4247-20090922. Results for samples SA-TW-313-2025-20090922 and SA-TW-313-4247-20090922 were non-detected for the aforementioned analytes which were qualified estimated, (UJ), due to the %D quality control limit exceedance.

Internal Standard

The internal standard recoveries were less than the quality control limit for chlorobenzene-d5 for the initial analysis of samples SA-TW-315-0813-20090916, SA-TW-315-2025-20090916 and SA-TW-315-4025-20090916. The samples were re-analyzed with internal standard recoveries which were within the quality control limits for the sample, but the samples were re-analyzed outside the quality control limit hold time. As the samples were re-analyzed outside the hold time the re-analysis sample results were not used and the initial sample analysis results were reported. The non-detected internal standard chlorobenzene-d5 associated analyte results for the aforementioned samples were qualified estimated, (UJ), due to the internal standard quality control limit exceedance.

Surrogate Recovery

The surrogate % recoveries were greater than the quality control limit for 1,2-dichloroethane-d4 for the initial analysis of samples SA-TW-315-2025-20090916 and SA-TW-315-4025-20090916. The samples were re-analyzed and the % recovery of the surrogate was within the quality control limits. However, the samples were re-analyzed outside the quality control limit hold time and these re-analysis samples were not used and the initial sample analysis results were reported. As there were surrogate % recovery issues for these samples in the initial analysis, the positive results for sample SA-TW-315-4025-20090916 were qualified estimated, (J), and the non-detected results for sample SA-TW-315-2025-20090916 and SA-TW-315-4025-20090916 were not qualified.

Other

Instrument 5972HP59 was not calibrated for 2-chloroethyl vinyl ether on 09/28/09 and 10/09/09, and some continuing calibration, LSC and MS/MSD results for 2-chloroethyl vinyl ether were outside the quality control limits. The samples were acid preserved and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples. All sample results for 2-chloroethyl vinyl ether were non-detected and the sample results were qualified rejected, (UR).

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) VKGLCS % recovery was greater than the quality control limit for hexachlorobutadiene. No action was taken as the all affected samples had non-detected results for hexachlorobutadiene.

The LCS VKKGLCS % recovery was greater than the quality control limit for acetone and 4-methyl-2-pentanone, and the LCS duplicate (LCSD) VKKLCS % recoveries were greater than the quality control limit for acetone, 4-methyl-2-pentanone, and 2-butanone. In addition, the relative percent difference (RPD) for the LCS/LCSD for dichlorodifluoromethane was greater than the quality control limit. No action was taken as the all affected samples had non-detected results for acetone, 4-methyl-2-pentanone, dichlorodifluoromethane, and 2-butanone.

The LCS VKWLCS % recovery was greater than the quality control limit for dichlorodifluoromethane. No action was taken as the all affected samples had non-detected results for dichlorodifluoromethane.

The continuing calibration verification %D exceeded the 20% quality control limit but was less than 90% for dichlorodifluoromethane, acrylonitrile, methylmethacrylate, and 1,2-dibromo-3-chloropropane for instrument 5972HP59 on 10/14/09 @ 11:41 affecting VLNLCSD, VLNLCS, and the matrix spike (MS)/MS duplicate (MSD) of sample SA-TW-313-0914-20090922. As these were not samples no action was warranted.

Rinse blanks, trip blanks, and field blanks had positive VOC detections. Samples data was not qualified due to this blank contamination.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Naphthalene and n-butyl benzene were detected in method blanks resulting in sample data qualification. Initial and continuing calibration quality control limit non-compliances for 2-chlroethyl vinyl ether resulted in the rejection of 2-chloroethyl vinyl ether results for all samples. Hold time exceedances resulted in data qualification of the re-analysis dilution results for 1,1-dichloroethane for samples SA-TW-312-4146-20090914(DL) and SA-TW-316-3237-20090917(DL). Continuing calibration %D quality control limit exceedances resulted in data qualification for a number of analytes for a number of samples. Surrogate % recovery quality control limit exceedances resulted in qualification of some analyte positive and non-detected results for samples SA-TW-315-2025-20090916 and SA-TW-315-4025-20090916.

Other Factors Affecting Data Quality: The samples were preserved with acid which prevents detection of 2-chloroethyl vinyl ether. 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).

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Chemist/Data Validator

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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 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-FB03-20090915			SA-RB03-20090915			SA-TB05-20090914			SA-TB06-20090917		
SDG: 0909125	LAB_ID	0909125-11			0909125-10			0909125-12			0909125-13		
FRACTION: OV	SAMP_DATE	9/15/2009			9/15/2009			9/14/2009			9/17/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
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	
1,2,3-TRICHLOROBENZENE		5	U		2.8	J	P	2.5	J	P	5	U	
1,2,3-TRICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		2.4	J	P	5	U		5	U	
1,2,4-TRIMETHYLBENZENE		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	
1,3,5-TRIMETHYLBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
2-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-ISOPROPYLTOLUENE		5	U		5	U		5	U		5	U	
4-METHYL-2-PENTANONE		13	U		13	U		10	J	P	13	U	
ACETONE		13	U		13	U		13	U		13	U	
ACRYLONITRILE		50	U		50	U		50	U		50	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMOBENZENE		5	U		5	U		5	U		5	U	
BROMOCHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		4.1	J	P	5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	U		5	U	
BROMOMETHANE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-312-0712-20090914			SA-TW-312-2025-20090914			SA-TW-312-4146-20090914			SA-TW-312-4146-20090914-DL		
SDG: 0909125	LAB_ID	0909125-01			0909125-02			0909125-03			0909125-03RE1		
FRACTION: OV	SAMP_DATE	9/14/2009			9/14/2009			9/14/2009			9/14/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U		5	U		25	U				
1,1,1-TRICHLOROETHANE		5	U		5	U		280					
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		25	U				
1,1,2-TRICHLOROETHANE		5	U		5	U		25	U				
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		25	U				
1,1-DICHLOROETHANE		5	U		5	U					1200	J	H
1,1-DICHLOROETHENE		5	U		5	U		55					
1,1-DICHLOROPROPENE		5	U		5	U		25	U				
1,2,3-TRICHLOROBENZENE		5	U		5	U		25	U				
1,2,3-TRICHLOROPROPANE		5	U		5	U		25	U				
1,2,4-TRICHLOROBENZENE		5	U		5	U		25	U				
1,2,4-TRIMETHYLBENZENE		5	U		5	U		25	U				
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		25	U				
1,2-DIBROMOETHANE		5	U		5	U		25	U				
1,2-DICHLOROBENZENE		5	U		5	U		25	U				
1,2-DICHLOROETHANE		5	U		5	U		25	U				
1,2-DICHLOROPROPANE		5	U		5	U		25	U				
1,3,5-TRIMETHYLBENZENE		5	U		5	U		25	U				
1,3-DICHLOROBENZENE		5	U		5	U		25	U				
1,3-DICHLOROPROPANE		5	U		5	U		25	U				
1,4-DICHLOROBENZENE		5	U		5	U		25	U				
2,2-DICHLOROPROPANE		5	U		5	U		25	U				
2-BUTANONE		13	U		13	U		63	U				
2-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	25	UR	C			
2-CHLOROTOLUENE		5	U		5	U		25	U				
4-CHLOROTOLUENE		5	U		5	U		25	U				
4-ISOPROPYLTOLUENE		5	U		5	U		25	U				
4-METHYL-2-PENTANONE		13	U		13	U		63	U				
ACETONE		13	U		13	U		63	U				
ACRYLONITRILE		50	U		50	U		250	U				
BENZENE		5	U		5	U		25	U				
BROMOBENZENE		5	U		5	U		25	U				
BROMOCHLOROMETHANE		5	U		5	U		25	U				
BROMODICHLOROMETHANE		5	U		5	U		25	U				
BROMOFORM		5	U		5	U		25	U				
BROMOMETHANE		5	U		5	U		25	U				

PROJ_NO: 01655	NSAMPLE	SA-TW-313-0914-20090922			SA-TW-313-2025-20090922			SA-TW-313-4247-20090922			SA-TW-314-0712-20090915		
SDG: 0909125	LAB_ID	0909125-19			0909125-21			0909125-22			0909125-04		
FRACTION: OV	SAMP_DATE	9/22/2009			9/22/2009			9/22/2009			9/15/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,1-TRICHLOROETHANE		5	U		5	U		2.2	J	P	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			5	U	
1,1-DICHLOROETHENE		5	U		5	U		1.3	J	P	5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	UJ	C	5	UJ	C	5	U	
1,2,4-TRIMETHYLBENZENE		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	
1,3,5-TRIMETHYLBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2,2-DICHLOROPROPANE		5	U		5	UJ	C	5	UJ	C	5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
2-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-ISOPROPYLTOLUENE		5	U		5	U		5	U		5	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		13	U		4.8	J	P	13	U		13	U	
ACRYLONITRILE		50	U		50	U		50	U		50	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMOBENZENE		5	U		5	U		5	U		5	U	
BROMOCHLOROMETHANE		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	

PROJ_NO: 01655	NSAMPLE	SA-TW-314-2025-20090915			SA-TW-314-3944-20090915			SA-TW-315-0813-20090916			SA-TW-315-2025-20090916		
SDG: 0909125	LAB_ID	0909125-05			0909125-06			0909125-07			0909125-08		
FRACTION: OV	SAMP_DATE	9/15/2009			9/15/2009			9/16/2009			9/16/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U		5	U		5	UJ	N	5	UJ	N
1,1,1-TRICHLOROETHANE		5	U		12			5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	U		5	U		5	UJ	N	5	UJ	N
1,1,2-TRICHLOROETHANE		5	U		5	U		5	UJ	N	5	UJ	N
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U		5	U		5	U		5	U	
1,1-DICHLOROETHANE		5	U		94	J		5	U		5	U	
1,1-DICHLOROETHENE		5	U		3.9	J	P	5	U		5	U	
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
1,2,3-TRICHLOROPROPANE		5	U		5	U		5	UJ	N	5	UJ	N
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
1,2,4-TRIMETHYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
1,2-DIBROMO-3-CHLOROPROPANE		5	U		5	U		5	UJ	CN	5	UJ	CN
1,2-DIBROMOETHANE		5	U		5	U		5	UJ	N	5	UJ	N
1,2-DICHLOROBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
1,2-DICHLOROETHANE		5	U		5	U		5	U		5	U	
1,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,3,5-TRIMETHYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
1,3-DICHLOROBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
1,3-DICHLOROPROPANE		5	U		5	U		5	UJ	N	5	UJ	N
1,4-DICHLOROBENZENE		5	U		1.9	J	P	5	UJ	N	5	UJ	N
2,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	UJ	C	13	UJ	C
2-CHLOROETHYL VINYL ETHER		5	UR	C	5	UR	C	5	UR	C	5	UR	C
2-CHLOROTOLUENE		5	U		5	U		5	UJ	N	5	UJ	N
4-CHLOROTOLUENE		5	U		5	U		5	UJ	N	5	UJ	N
4-ISOPROPYLTOLUENE		5	U		5	U		5	UJ	N	5	UJ	N
4-METHYL-2-PENTANONE		13	U		13	U		13	UJ	N	13	UJ	N
ACETONE		13	U		13	U		13	U		13	U	
ACRYLONITRILE		50	U		50	U		50	U		50	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMOBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
BROMOCHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMOFORM		5	U		5	U		5	UJ	CN	5	UJ	CN
BROMOMETHANE		5	U		5	U		5	U		5	U	

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PROJ_NO: 01655	NSAMPLE	SA-TW-315-4045-20090916			SA-TW-315-4045-20090916-RE			SA-TW-316-0712-20090917			SA-TW-316-2025-20090917		
SDG: 0909125	LAB_ID	0909125-09			0909125-09RE1			0909125-14			0909125-15		
FRACTION: OV	SAMP_DATE	9/16/2009			9/16/2009			9/17/2009			9/17/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	UJ	N				5	U		5	U	
1,1,1-TRICHLOROETHANE		2.6	J	PR	2.2	J	HP	5	U		5	U	
1,1,2,2-TETRACHLOROETHANE		5	UJ	N				5	U		5	U	
1,1,2-TRICHLOROETHANE		5	UJ	N				5	U		5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		5	U					5	U		5	U	
1,1-DICHLOROETHANE		62	J	R				5	U		5	U	
1,1-DICHLOROETHENE		3.7	J	PR				5	U		5	U	
1,1-DICHLOROPROPENE		5	U					5	U		5	U	
1,2,3-TRICHLOROBENZENE		5	UJ	N				5	U		5	U	
1,2,3-TRICHLOROPROPANE		5	UJ	N				5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	UJ	N				5	U		5	U	
1,2,4-TRIMETHYLBENZENE		5	UJ	N				5	U		5	U	
1,2-DIBROMO-3-CHLOROPROPANE		5	UJ	CN				5	U		5	U	
1,2-DIBROMOETHANE		5	UJ	N				5	U		5	U	
1,2-DICHLOROBENZENE		5	UJ	N				5	U		5	U	
1,2-DICHLOROETHANE		5	U					5	U		5	U	
1,2-DICHLOROPROPANE		5	U					5	U		5	U	
1,3,5-TRIMETHYLBENZENE		5	UJ	N				5	U		5	U	
1,3-DICHLOROBENZENE		5	UJ	N				5	U		5	U	
1,3-DICHLOROPROPANE		5	UJ	N				5	U		5	U	
1,4-DICHLOROBENZENE		5	UJ	N				5	U		5	U	
2,2-DICHLOROPROPANE		5	U					5	U		5	U	
2-BUTANONE		13	UJ	C				13	U		13	U	
2-CHLOROETHYL VINYL ETHER		5	UR	C				5	UR	C	5	UR	C
2-CHLOROTOLUENE		5	UJ	N				5	U		5	U	
4-CHLOROTOLUENE		5	UJ	N				5	U		5	U	
4-ISOPROPYLTOLUENE		5	UJ	N				5	U		5	U	
4-METHYL-2-PENTANONE		13	UJ	N				13	U		13	U	
ACETONE		13	U					13	U		13	U	
ACRYLONITRILE		50	U					50	U		50	U	
BENZENE		5	U					5	U		5	U	
BROMOBENZENE		5	UJ	N				5	U		5	U	
BROMOCHLOROMETHANE		5	U					5	U		5	U	
BROMODICHLOROMETHANE		5	U					5	U		5	U	
BROMOFORM		5	UJ	CN				5	U		5	U	
BROMOMETHANE		5	UJ	N				5	U		5	U	

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PROJ_NO: 01655	NSAMPLE	SA-TW-316-3237-20090917			SA-TW-316-3237-20090917-RE			SA-TW-317-1015-20090918			SA-TW-317-2025-20090918		
SDG: 0909125	LAB_ID	0909125-16			0909125-16RE1			0909125-17			0909125-18		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/18/2009			9/18/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U					5	U		5	U	
1,1,1-TRICHLOROETHANE		51						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					240	J	H	5	U		5	U	
1,1-DICHLOROETHENE		12						5	U		5	U	
1,1-DICHLOROPROPENE		5	U					5	U		5	U	
1,2,3-TRICHLOROBENZENE		5	U					5	U		5	U	
1,2,3-TRICHLOROPROPANE		5	U					5	U		5	U	
1,2,4-TRICHLOROBENZENE		2.3	J	P				5	U		5	U	
1,2,4-TRIMETHYLBENZENE		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	
1,3,5-TRIMETHYLBENZENE		5	U					5	U		5	U	
1,3-DICHLOROBENZENE		5	U					5	U		5	U	
1,3-DICHLOROPROPANE		5	U					5	U		5	U	
1,4-DICHLOROBENZENE		5	U					5	U		5	U	
2,2-DICHLOROPROPANE		5	U					5	U		5	U	
2-BUTANONE		13	U					13	U		13	U	
2-CHLOROETHYL VINYL ETHER		5	UR	C				5	UR	C	5	UR	C
2-CHLOROTOLUENE		5	U					5	U		5	U	
4-CHLOROTOLUENE		5	U					5	U		5	U	
4-ISOPROPYLTOLUENE		5	U					5	U		5	U	
4-METHYL-2-PENTANONE		13	U					13	U		13	U	
ACETONE		13	U					13	U		13	U	
ACRYLONITRILE		50	U					50	U		50	U	
BENZENE		5	U					5	U		5	U	
BROMOBENZENE		5	U					5	U		5	U	
BROMOCHLOROMETHANE		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	

PROJ_NO: 01655	NSAMPLE	SA-TW-317-39.544.5-20090921
SDG: 0909125	LAB_ID	0909125-20
FRACTION: OV	SAMP_DATE	9/21/2009
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE	5	U	
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	6.3		
1,1-DICHLOROETHENE	5	U	
1,1-DICHLOROPROPENE	5	U	
1,2,3-TRICHLOROBENZENE	5	U	
1,2,3-TRICHLOROPROPANE	5	U	
1,2,4-TRICHLOROBENZENE	5	U	
1,2,4-TRIMETHYLBENZENE	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	
1,3,5-TRIMETHYLBENZENE	5	U	
1,3-DICHLOROBENZENE	5	U	
1,3-DICHLOROPROPANE	5	U	
1,4-DICHLOROBENZENE	5	U	
2,2-DICHLOROPROPANE	5	U	
2-BUTANONE	13	U	
2-CHLOROETHYL VINYL ETHER	5	UR	C
2-CHLOROTOLUENE	5	U	
4-CHLOROTOLUENE	5	U	
4-ISOPROPYLTOLUENE	5	U	
4-METHYL-2-PENTANONE	13	U	
ACETONE	5	J	P
ACRYLONITRILE	50	U	
BENZENE	5	U	
BROMOBENZENE	5	U	
BROMOCHLOROMETHANE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	5	U	

PROJ_NO: 01655	NSAMPLE	SA-FB03-20090915			SA-RB03-20090915			SA-TB05-20090914			SA-TB06-20090917		
SDG: 0909125	LAB_ID	0909125-11			0909125-10			0909125-12			0909125-13		
FRACTION: OV	SAMP_DATE	9/15/2009			9/15/2009			9/14/2009			9/17/2009		
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
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		5.4			5	U		5	U		5	U	
CHLOROFORM		3.4	J	P	5	U		5	U		5	U	
CHLOROMETHANE		5	UJ	C	5	UJ	C	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	
DIBROMOMETHANE		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	
HEXACHLOROBUTADIENE		5	U		5	U		5	U		5	U	
HEXANE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL IODIDE		5	U		5	U		5	U		5	U	
METHYL METHACRYLATE		50	U		50	U		50	U		50	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		5	U		5	U		5	U	
NAPHTHALENE		5.5			8.4			5.1			5	U	
N-BUTYLBENZENE		5	U		1.3	J	P	5	U		5	U	
N-PROPYLBENZENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
SEC-BUTYLBENZENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TERT-BUTYLBENZENE		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 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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-312-0712-20090914			SA-TW-312-2025-20090914			SA-TW-312-4146-20090914			SA-TW-312-4146-20090914-DL		
SDG: 0909125	LAB_ID	0909125-01			0909125-02			0909125-03			0909125-03RE1		
FRACTION: OV	SAMP_DATE	9/14/2009			9/14/2009			9/14/2009			9/14/2009		
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
CARBON DISULFIDE		5	U		5	U		25	U				
CARBON TETRACHLORIDE		5	U		5	U		25	U				
CHLOROBENZENE		5	U		5	U		25	U				
CHLORODIBROMOMETHANE		5	U		5	U		25	U				
CHLOROFORM		5	U		5	U		25	U				
CHLOROMETHANE		5	U		5	U		25	UJ	C			
CIS-1,2-DICHLOROETHENE		5	U		5	U		25	U				
CIS-1,3-DICHLOROPROPENE		5	U		5	U		25	U				
DIBROMOMETHANE		5	U		5	U		25	U				
DICHLORODIFLUOROMETHANE		5	U		5	U		25	U				
ETHYLBENZENE		5	U		5	U		25	U				
HEXACHLOROBUTADIENE		5	U		5	U		25	U				
HEXANE		5	U		5	U		25	U				
ISOPROPYLBENZENE		5	U		5	U		25	U				
M+P-XYLENES		10	U		10	U		50	U				
METHYL IODIDE		5	U		5	U		25	U				
METHYL METHACRYLATE		50	U		50	U		250	U				
METHYL TERT-BUTYL ETHER		5	U		5	U		25	U				
METHYLENE CHLORIDE		5	U		5	U		25	U				
NAPHTHALENE		5	U		5	U		25	U				
N-BUTYLBENZENE		5	U		5	U		25	U				
N-PROPYLBENZENE		5	U		5	U		25	U				
O-XYLENE		5	U		5	U		25	U				
SEC-BUTYLBENZENE		5	U		5	U		25	U				
STYRENE		5	U		5	U		25	U				
TERT-BUTYLBENZENE		5	U		5	U		25	U				
TETRACHLOROETHENE		5	U		5	U		25	U				
TOLUENE		5	U		5	U		25	U				
TOTAL XYLENES		5	U		5	U		25	U				
TRANS-1,2-DICHLOROETHENE		5	U		5	U		25	U				
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		25	U				
TRICHLOROETHENE		5	U		5	U		25	U				
VINYL CHLORIDE		5	U		5	U		25	U				

PROJ_NO: 01655	NSAMPLE	SA-TW-313-0914-20090922			SA-TW-313-2025-20090922			SA-TW-313-4247-20090922			SA-TW-314-0712-20090915		
SDG: 0909125	LAB_ID	0909125-19			0909125-21			0909125-22			0909125-04		
FRACTION: OV	SAMP_DATE	9/22/2009			9/22/2009			9/22/2009			9/15/2009		
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
CARBON DISULFIDE		5	U		5	UJ	C	5	UJ	C	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	
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	
DIBROMOMETHANE		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	
HEXACHLOROBUTADIENE		5	U		5	U		5	U		5	U	
HEXANE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL IODIDE		5	U		5	UJ	C	5	UJ	C	5	U	
METHYL METHACRYLATE		50	U		50	U		50	U		50	U	
METHYL TERT-BUTYL ETHER		5	U		5	U		5	U		5	U	
METHYLENE CHLORIDE		5	U		1.1	J	P	0.95	J	P	5	U	
NAPHTHALENE		5	U		5	U		5	U		5	U	
N-BUTYLBENZENE		5	U		5	U		5	U		5	U	
N-PROPYLBENZENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
SEC-BUTYLBENZENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TERT-BUTYLBENZENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U		5	U		5	U	
TOLUENE		5	U		5	U		5	U		0.75	J	P
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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-314-2025-20090915			SA-TW-314-3944-20090915			SA-TW-315-0813-20090916			SA-TW-315-2025-20090916		
SDG: 0909125	LAB_ID	0909125-05			0909125-06			0909125-07			0909125-08		
FRACTION: OV	SAMP_DATE	9/15/2009			9/15/2009			9/16/2009			9/16/2009		
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
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	UJ	N	5	UJ	N
CHLORODIBROMOMETHANE		5	U		5	U		5	UJ	N	5	UJ	N
CHLOROFORM		5	U		5	U		5	U		5	U	
CHLOROMETHANE		5	U		5	U		5	UJ	C	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	
DIBROMOMETHANE		5	U		5	U		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U		5	U		5	U	
ETHYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
HEXACHLOROBUTADIENE		5	U		5	U		5	UJ	N	5	UJ	N
HEXANE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
M+P-XYLENES		10	U		10	U		10	UJ	N	10	UJ	N
METHYL IODIDE		5	U		5	U		5	UJ	C	5	UJ	C
METHYL METHACRYLATE		50	U		50	U		50	UJ	C	50	UJ	C
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	UJ	N	5	UJ	N
N-BUTYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
N-PROPYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
O-XYLENE		5	U		5	U		5	UJ	N	5	UJ	N
SEC-BUTYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
STYRENE		5	U		5	U		5	UJ	N	5	UJ	N
TERT-BUTYLBENZENE		5	U		5	U		5	UJ	N	5	UJ	N
TETRACHLOROETHENE		5	U		5	U		5	UJ	N	5	UJ	N
TOLUENE		5	U		0.74	J	P	5	UJ	N	5	UJ	N
TOTAL XYLENES		5	U		5	U		5	UJ	N	5	UJ	N
TRANS-1,2-DICHLOROETHENE		5	U		5	U		5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	U		5	U		5	UJ	N	5	UJ	N
TRICHLOROETHENE		5	U		5	U		5	U		5	U	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-315-4045-20090916			SA-TW-315-4045-20090916-RE			SA-TW-316-0712-20090917			SA-TW-316-2025-20090917		
SDG: 0909125	LAB_ID	0909125-09			0909125-09RE1			0909125-14			0909125-15		
FRACTION: OV	SAMP_DATE	9/16/2009			9/16/2009			9/17/2009			9/17/2009		
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
CARBON DISULFIDE		5	U					5	U		5	U	
CARBON TETRACHLORIDE		5	U					5	U		5	U	
CHLOROBENZENE		5	UJ	N				5	U		5	U	
CHLORODIBROMOMETHANE		5	UJ	N				5	U		5	U	
CHLOROFORM		5	U					5	U		5	U	
CHLOROMETHANE		5	UJ	C				5	U		5	U	
CIS-1,2-DICHLOROETHENE		5	U					5	U		5	U	
CIS-1,3-DICHLOROPROPENE		5	U					5	U		5	U	
DIBROMOMETHANE		5	U					5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U					5	U		5	U	
ETHYLBENZENE		5	UJ	N				5	U		5	U	
HEXACHLOROBUTADIENE		5	UJ	N				5	U		5	U	
HEXANE		5	U					5	U		5	U	
ISOPROPYLBENZENE		5	UJ	N				5	U		5	U	
M+P-XYLENES		10	UJ	N				10	U		10	U	
METHYL IODIDE		5	UJ	C				5	U		5	U	
METHYL METHACRYLATE		50	UJ	C				50	U		50	U	
METHYL TERT-BUTYL ETHER		5	U					5	U		5	U	
METHYLENE CHLORIDE		5	U					5	U		5	U	
NAPHTHALENE		5	UJ	N				5	U		5	U	
N-BUTYLBENZENE		5	UJ	N				5	U		5	U	
N-PROPYLBENZENE		5	UJ	N				5	U		5	U	
O-XYLENE		5	UJ	N				5	U		5	U	
SEC-BUTYLBENZENE		5	UJ	N				5	U		5	U	
STYRENE		5	UJ	N				5	U		5	U	
TERT-BUTYLBENZENE		5	UJ	N				5	U		5	U	
TETRACHLOROETHENE		5	UJ	N				5	U		5	U	
TOLUENE		5	UJ	N				5	U		5	U	
TOTAL XYLENES		5	UJ	N				5	U		5	U	
TRANS-1,2-DICHLOROETHENE		5	U					5	U		5	U	
TRANS-1,3-DICHLOROPROPENE		5	UJ	N				5	U		5	U	
TRICHLOROETHENE		5	U					5	U		5	U	
VINYL CHLORIDE		5	U					5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-316-3237-20090917			SA-TW-316-3237-20090917-RE			SA-TW-317-1015-20090918			SA-TW-317-2025-20090918		
SDG: 0909125	LAB_ID	0909125-16			0909125-16RE1			0909125-17			0909125-18		
FRACTION: OV	SAMP_DATE	9/17/2009			9/17/2009			9/18/2009			9/18/2009		
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
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	
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	
DIBROMOMETHANE		5	U					5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U					5	U		5	U	
ETHYLBENZENE		5	U					5	U		5	U	
HEXACHLOROBUTADIENE		5	U					5	U		5	U	
HEXANE		5	U					5	U		5	U	
ISOPROPYLBENZENE		5	U					5	U		5	U	
M+P-XYLENES		10	U					10	U		10	U	
METHYL IODIDE		5	U					5	U		5	U	
METHYL METHACRYLATE		50	U					50	U		50	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	
N-BUTYLBENZENE		5	U					5	U		5	U	
N-PROPYLBENZENE		5	U					5	U		5	U	
O-XYLENE		5	U					5	U		5	U	
SEC-BUTYLBENZENE		5	U					5	U		5	U	
STYRENE		5	U					5	U		5	U	
TERT-BUTYLBENZENE		5	U					5	U		5	U	
TETRACHLOROETHENE		5	U					5	U		5	U	
TOLUENE		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	
VINYL CHLORIDE		5	U					5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-317-39.544.5-20090921
SDG: 0909125	LAB_ID	0909125-20
FRACTION: OV	SAMP_DATE	9/21/2009
MEDIA: WATER	QC_TYPE	NM
	UNITS	UG/L
	PCT_SOLIDS	0.0
	DUP_OF	

PARAMETER	RESULT	VQL	QLCD
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROFORM	5	U	
CHLOROMETHANE	5	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
DIBROMOMETHANE	5	U	
DICHLORODIFLUOROMETHANE	5	U	
ETHYLBENZENE	5	U	
HEXACHLOROBUTADIENE	5	U	
HEXANE	5	U	
ISOPROPYLBENZENE	5	U	
M+P-XYLENES	10	U	
METHYL IODIDE	5	U	
METHYL METHACRYLATE	50	U	
METHYL TERT-BUTYL ETHER	5	U	
METHYLENE CHLORIDE	0.9	J	P
NAPHTHALENE	5	U	
N-BUTYLBENZENE	5	U	
N-PROPYLBENZENE	5	U	
O-XYLENE	5	U	
SEC-BUTYLBENZENE	5	U	
STYRENE	5	U	
TERT-BUTYLBENZENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL XYLENES	5	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
VINYL CHLORIDE	5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**DECEMBER 14, 2009**
FROM:	**JOSEPH KALINYAK**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – VOC NWIRP CALVERTON CTO 160 SDG 0909208**		
SAMPLES:	10 / Aqueous / VOC		

SA-FB04-20090924	SA-TB07-20090921	SA-TW-310-1015-20090924
SA-TW-310-2429-20090924	SA-TW-310-4853-20090925	SA-TW-311-1015-20090923
SA-TW-311-2328-20090923	SA-TW-311-4651-20090924	SA-TW-DUP07-20090922
SA-TW-RB04-20090921		

Overview

The sample set for NWIRP Calverton, SDG 0909208 consists of ten (10) aqueous environmental samples including one (1) trip blank, one (1) rinse blank, one (1) field blank, and one (1) field duplicate pair. The aqueous samples were analyzed for volatile organic compounds (VOC). The one field duplicate sample pair was associated with this sample data group (SDG) and SDG 0909125; SA-TW-DUP07-2009022 / SA-TW-313-4247-20090922 (SDG 0909125).

The samples were collected by Tetra Tech on September 21, 22, 23, 24, and 25, 2009 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
- * GCMS System Tuning and Performance
- Initial/continuing calibrations
- Laboratory Control Sample Recoveries
- Laboratory Method Blank Results
- * Surrogate Spike Recoveries
- * Internal Standard 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 following analyte was detected in the associated method blank at the maximum concentration as indicated below:

Compound	Maximum Conc. (µg/L)	Action Level (µg/L)
Methylene chloride [1]	0.97	9.7

[1] Method blank VBLKLD affecting samples SA-TW-311-1015-20090923, SA-TW-311-2328-20090923, SA-TW-311-4651-20090924, SA-FB04-20090924, SA-TW-310-1015-20090924, SA-TW-310-2429-20090924, and SA-TW-310-4853-20090925. The field blank was not qualified due to method blank contamination.

An action level of 10X the maximum contaminant concentration for the common laboratory contaminant volatile compound methylene chloride was established to evaluate laboratory contamination for the aforementioned compound. 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). There were also contaminant detections in the rinse blank, trip blank, and field blank which were not used to qualify the samples.

The continuing calibration verification %D exceeded the 20% quality control limit (and <90%) for methyl iodide for instrument 5972HP59 on 10/07/09 @ 10:47 affecting samples SA-TW-311-1015-20090923, SA-TW-311-2328-20090923, SA-TW-311-4651-20090924, SA-FB04-20090924, SA-TW-310-1015-20090924, SA-TW-310-2429-20090924, and SA-TW-310-4853-20090925. The non-detected results for methyl iodide for the aforementioned samples were qualified estimated, (UJ)

All samples were acid preserved and 2-chloroethyl vinyl ether cannot be detected in acid preserved samples. Therefore, all non-detected 2-chloroethyl vinyl ether sample results were qualified rejected, (UR).

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.

Rinse blanks, trip blanks, and field blanks had positive VOC detections. Samples data was not qualified due to this blank contamination.

The % recovery was greater than the quality control limit for dichlorodifluoromethane for the laboratory control sample duplicate (LCSD) VKWLCS and the relative percent difference (RPD) for the LCS/LCSD (VKWLCS) for dichlorodifluoromethane was greater than the quality control limit. No action was taken as all samples had non-detected results for dichlorodifluoromethane.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride was detected in a method blank resulting in sample data qualification. Methyl iodide continuing calibration %D was greater than the quality control limit of 20% resulting in data qualification of non-detected methyl iodide results for seven (7) samples.

Other Factors Affecting Data Quality: The samples were preserved with acid which prevents detection of 2-chloroethyl vinyl ether. 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-FB04-20090924			SA-TB07-20090921			SA-TW-310-1015-20090924			SA-TW-310-2429-20090924		
SDG: 0909208	LAB_ID	0909208-07			0909208-01			0909208-08			0909208-09		
FRACTION: OV	SAMP_DATE	9/24/2009			9/21/2009			9/24/2009			9/24/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
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	
1,2,3-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2,4-TRIMETHYLBENZENE		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	
1,3,5-TRIMETHYLBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-CHLOROETHYL VINYL ETHER		5	UR	Q	5	UR	Q	5	UR	Q	5	UR	Q
2-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-ISOPROPYLTOLUENE		5	U		5	U		5	U		5	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		6.2	J	P	5.9	J	P	13	U		9	J	P
ACRYLONITRILE		50	U		50	U		50	U		50	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMOBENZENE		5	U		5	U		5	U		5	U	
BROMOCHLOROMETHANE		5	U		5	U		5	U		5	U	
BROMODICHLOROMETHANE		3.4	J	P	5	U		5	U		5	U	
BROMOFORM		2.2	J	P	5	U		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-TW-310-4853-20090925			SA-TW-311-1015-20090923			SA-TW-311-2328-20090923			SA-TW-311-4651-20090924		
SDG: 0909208	LAB_ID	0909208-10			0909208-04			0909208-05			0909208-06		
FRACTION: OV	SAMP_DATE	9/25/2009			9/23/2009			9/23/2009			9/24/2009		
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
1,1,1,2-TETRACHLOROETHANE		5	U		5	U		5	U		5	U	
1,1,1-TRICHLOROETHANE		5	U		5	U		5	U		54		
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		200		
1,1-DICHLOROETHENE		5	U		5	U		5	U		17		
1,1-DICHLOROPROPENE		5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2,3-TRICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,2,4-TRIMETHYLBENZENE		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	
1,3,5-TRIMETHYLBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
1,3-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U		5	U		5	U	
2,2-DICHLOROPROPANE		5	U		5	U		5	U		5	U	
2-BUTANONE		13	U		13	U		13	U		13	U	
2-CHLOROETHYL VINYL ETHER		5	UR	Q	5	UR	Q	5	UR	Q	5	UR	Q
2-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		5	U		5	U		5	U		5	U	
4-ISOPROPYLTOLUENE		5	U		5	U		5	U		5	U	
4-METHYL-2-PENTANONE		13	U		13	U		13	U		13	U	
ACETONE		6.7	J	P	13	U		13	U		5.1	J	P
ACRYLONITRILE		50	U		50	U		50	U		50	U	
BENZENE		5	U		5	U		5	U		5	U	
BROMOBENZENE		5	U		5	U		5	U		5	U	
BROMOCHLOROMETHANE		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	

PROJ_NO: 01655	NSAMPLE	SA-TW-DUP07-20090922			SA-TW-RB04-20090921		
SDG: 0909208	LAB_ID	0909208-03			0909208-02		
FRACTION: OV	SAMP_DATE	9/22/2009			9/21/2009		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	SA-TW-313-4247-20090922					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		5	U		5	U	
1,1,1-TRICHLOROETHANE		2	J	P	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		13			5	U	
1,1-DICHLOROETHENE		1.2	J	P	5	U	
1,1-DICHLOROPROPENE		5	U		5	U	
1,2,3-TRICHLOROBENZENE		5	U		5	U	
1,2,3-TRICHLOROPROPANE		5	U		5	U	
1,2,4-TRICHLOROBENZENE		5	U		5	U	
1,2,4-TRIMETHYLBENZENE		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	
1,3,5-TRIMETHYLBENZENE		5	U		5	U	
1,3-DICHLOROBENZENE		5	U		5	U	
1,3-DICHLOROPROPANE		5	U		5	U	
1,4-DICHLOROBENZENE		5	U		5	U	
2,2-DICHLOROPROPANE		5	U		5	U	
2-BUTANONE		13	U		6.2	J	P
2-CHLOROETHYL VINYL ETHER		5	UR	Q	5	UR	Q
2-CHLOROTOLUENE		5	U		5	U	
4-CHLOROTOLUENE		5	U		5	U	
4-ISOPROPYLTOLUENE		5	U		5	U	
4-METHYL-2-PENTANONE		13	U		13	U	
ACETONE		13	U		12	J	P
ACRYLONITRILE		50	U		50	U	
BENZENE		5	U		5	U	
BROMOBENZENE		5	U		5	U	
BROMOCHLOROMETHANE		5	U		5	U	
BROMODICHLOROMETHANE		5	U		5	U	
BROMOFORM		5	U		5	U	

PROJ_NO: 01655	NSAMPLE	SA-FB04-20090924			SA-TB07-20090921			SA-TW-310-1015-20090924			SA-TW-310-2429-20090924		
SDG: 0909208	LAB_ID	0909208-07			0909208-01			0909208-08			0909208-09		
FRACTION: OV	SAMP_DATE	9/24/2009			9/21/2009			9/24/2009			9/24/2009		
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
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		4.3	J	P	5	U		5	U		5	U	
CHLOROFORM		3	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	
DIBROMOMETHANE		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	
HEXACHLOROBUTADIENE		5	U		5	U		5	U		5	U	
HEXANE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL IODIDE		5	UJ	C	5	U		5	UJ	C	5	UJ	C
METHYL METHACRYLATE		50	U		50	U		50	U		50	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		5	U	
N-BUTYLBENZENE		5	U		5	U		5	U		5	U	
N-PROPYLBENZENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
SEC-BUTYLBENZENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TERT-BUTYLBENZENE		5	U		5	U		5	U		5	U	
TETRACHLOROETHENE		2	J	P	5	U		5	U		5	U	
TOLUENE		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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

12-14-09
JAB

PROJ_NO: 01655	NSAMPLE	SA-TW-310-4853-20090925			SA-TW-311-1015-20090923			SA-TW-311-2328-20090923			SA-TW-311-4651-20090924		
SDG: 0909208	LAB_ID	0909208-10			0909208-04			0909208-05			0909208-06		
FRACTION: OV	SAMP_DATE	9/25/2009			9/23/2009			9/23/2009			9/24/2009		
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
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	
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	
DIBROMOMETHANE		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	
HEXACHLOROBUTADIENE		5	U		5	U		5	U		5	U	
HEXANE		5	U		5	U		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U		5	U		5	U	
M+P-XYLENES		10	U		10	U		10	U		10	U	
METHYL IODIDE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
METHYL METHACRYLATE		50	U		50	U		50	U		50	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	
N-BUTYLBENZENE		5	U		5	U		5	U		5	U	
N-PROPYLBENZENE		5	U		5	U		5	U		5	U	
O-XYLENE		5	U		5	U		5	U		5	U	
SEC-BUTYLBENZENE		5	U		5	U		5	U		5	U	
STYRENE		5	U		5	U		5	U		5	U	
TERT-BUTYLBENZENE		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 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	
VINYL CHLORIDE		5	U		5	U		5	U		5	U	

12-14-09
JAJ

PROJ_NO: 01655	NSAMPLE	SA-TW-DUP07-20090922			SA-TW-RB04-20090921		
SDG: 0909208	LAB_ID	0909208-03			0909208-02		
FRACTION: OV	SAMP_DATE	9/22/2009			9/21/2009		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF	SA-TW-313-4247-20090922					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
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	
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	
DIBROMOMETHANE		5	U		5	U	
DICHLORODIFLUOROMETHANE		5	U		5	U	
ETHYLBENZENE		5	U		5	U	
HEXACHLOROBUTADIENE		5	U		5	U	
HEXANE		5	U		5	U	
ISOPROPYLBENZENE		5	U		5	U	
M+P-XYLENES		10	U		10	U	
METHYL IODIDE		5	U		5	U	
METHYL METHACRYLATE		50	U		50	U	
METHYL TERT-BUTYL ETHER		5	U		5	U	
METHYLENE CHLORIDE		5	U		1.7	J	P
NAPHTHALENE		5	U		5	U	
N-BUTYLBENZENE		5	U		5	U	
N-PROPYLBENZENE		5	U		5	U	
O-XYLENE		5	U		5	U	
SEC-BUTYLBENZENE		5	U		5	U	
STYRENE		5	U		5	U	
TERT-BUTYLBENZENE		5	U		5	U	
TETRACHLOROETHENE		5	U		5	U	
TOLUENE		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	
VINYL CHLORIDE		5	U		5	U	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**R. SOK**	**DATE:**	**JANUARY 12, 2010**
FROM:	**A. COGNETTI**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOC**
NWIRP CALVERTON CTO 160
SAMPLE DELIVERY GROUP (SDG) 0911130

SAMPLES: 7/Aqueous/VOC

CA-PRSC-01-20091118	CA-PRSC-02-01-20091118
CA-PRSC-02-02-20091118	CA-PRSC-02-03-20091118
CA-PRSC-03-20091118	CA-PRSC-04-20091118
CA-PRSC-DUP01-20091118	

Overview

The sample set for NWIRP Calverton, CTO 160, SDG 0911130 consists of seven (7) environmental aqueous samples. The samples were analyzed for select volatile organic compounds (VOC). The field duplicate pair within this SDG is CA-PRSC-03-20091118 and CA-PRSC-DUP01-20091118.

The samples were collected on November 18, 2009 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 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

Contaminants were detected in laboratory method blank VBLKHU at the following maximum concentrations.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Acetone	5.7	57.0
Naphthalene	2.2	11.0

An action level of 5X the maximum contaminant concentration of naphthalene was established to evaluate the samples for laboratory method blank contamination. An action level of 10X the maximum concentration of acetone, a common laboratory contaminant, 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. The positive naphthalene result in sample CA-PRSC-03-20091118 was less than the reporting limit and also less than the action level. Therefore, the naphthalene sample concentration was raised to the reporting limit and qualified as (U). No action was taken on the nondetected results for acetone and naphthalene in the affected samples CA-PRSC-02-02-20091118, CA-PRSC-02-02-20091118, CA-PRSC-02-03-20091118, CA-PRSC-DUP01-20091118 and CA-PRSC-01-20091118.

In the continuing calibration on November 20, 2009 @ 12:31 on instrument 5972HP69, vinyl chloride had a percent difference (%D) greater than the Region II quality control limit of 20%. Nondetected vinyl chloride results in the affected samples CA-PRSC-04-20091118 and CA-PRSC-03-20091118 were qualified as (UJ).

In the continuing calibration of instrument 5972HP59 on November 23, 2009 @ 11:39, acetone, 2-butanone and 2-hexanone had a %D greater than the 20% quality control limit. Nondetects for the aforementioned analytes were qualified (UJ) in the affected samples CA-PRSC-02-01-20091118, CA-PRSC-02-02-20091118, CA-PRSC-02-03-20091118, CA-PRSC-DUP01-20091118 and CA-PRSC-01-20091118.

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 VHQLCS, the percent recovery (%R) of bromomethane was greater than the upper quality control limit. No action was taken on the nondetected bromomethane results in the affected samples CA-PRSC-04-20091118 and CA-PRSC-03-20091118.

A matrix spike and matrix spike duplicate analysis was not performed by the laboratory. This item is noted for completeness. No action taken.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Acetone and naphthalene were detected in a laboratory method blank. 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 SOP # HW-24 Revision #2, October 2006, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846/8260B 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.

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	CA-PRSC-01-20091118			CA-PRSC-02-01-20091118			CA-PRSC-02-02-20091118			CA-PRSC-02-03-20091118		
SDG: 0911130	LAB_ID	0911130-07			0911130-03			0911130-04			0911130-05		
FRACTION: OV	SAMP_DATE	11/18/2009			11/18/2009			11/18/2009			11/18/2009		
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		9.3			5	U		5	U	
1,1-DICHLOROETHENE		5	U		4.4	J	P	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	U		13	U		13	U		13	U	
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	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		1.4	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	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-01-20091118			CA-PRSC-02-01-20091118			CA-PRSC-02-02-20091118			CA-PRSC-02-03-20091118		
SDG: 0911130	LAB_ID	0911130-07			0911130-03			0911130-04			0911130-05		
FRACTION: OV	SAMP_DATE	11/18/2009			11/18/2009			11/18/2009			11/18/2009		
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	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		5	U		5	U		5	U	
TOTAL 1,2-DICHLOROETHENE		5	U		1.4	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		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-03-20091118			CA-PRSC-04-20091118			CA-PRSC-DUP01-20091118		
SDG: 0911130	LAB_ID	0911130-02			0911130-01			0911130-06		
FRACTION: OV	SAMP_DATE	11/18/2009			11/18/2009			11/18/2009		
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-03-20091118		
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	UJ	C
2-HEXANONE		13	U		13	U		13	UJ	C
4-METHYL-2-PENTANONE		13	U		13	U		13	U	
ACETONE		13	U		13	U		13	UJ	C
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	

PROJ_NO: 01655	NSAMPLE	CA-PRSC-03-20091118			CA-PRSC-04-20091118			CA-PRSC-DUP01-20091118		
SDG: 0911130	LAB_ID	0911130-02			0911130-01			0911130-06		
FRACTION: OV	SAMP_DATE	11/18/2009			11/18/2009			11/18/2009		
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-03-20091118		
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		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		5	U		5	U		5	U	
TRICHLOROFLUOROMETHANE		5	U		5	U		5	U	
VINYL CHLORIDE		5	UJ	C	5	UJ	C	5	U	