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Monitoring Event 18 Report – April/May 2001 for Sites 1 and 3 and Eastern Plume Naval Air Station, Brunswick, Maine

Contract No. N62472-92-D-1296
Contract Task Order No. 0047

U.S. NAVAL AIR STATION
BRUNSWICK, MAINE

Prepared for

Department of the Navy
Engineering Field Activity Northeast
Naval Facilities Engineering Command
10 Industrial Highway
Mail Stop No. 82
Lester, Pennsylvania 19113-2090

Prepared by

EA Engineering, Science, and Technology
The Maple Building
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Newburgh, New York 12550

January 2002
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Alexander C. Easterday, P.G.
CTO Manager

1/22/02
Date

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Program Manager

1/22/02
Date

January 2002
296.0047

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project No.: 29600.47
Contract Task Order No. 0047
Activity: Naval Air Station, Brunswick, Maine

Description of Report/Deliverable:

Monitoring Event 18 Report – April/May 2001 for Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine

EA CTO Manager: Alexander C. Easterday, P.G.

In compliance with EA's Quality Procedures for review of deliverables outlined in the Quality Management Plan, this final deliverable has been reviewed for quality by the undersigned Senior Technical Reviewer(s). The information presented in this report/deliverable has been prepared in accordance with the approved Implementation Plan for the Contract Task Order (CTO) and reflects a proper presentation of the data and/or the conclusions drawn and/or the analyses or design completed during the conduct of the work. This statement is based upon the standards identified in the CTO and/or the standard of care existing at the time of preparation.

Senior Technical Reviewer

for James A. Shultz 1/22/02

James A. Shultz, CPG (Date)
Senior Geologist

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project Number: 29600.47
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Monitoring Event 18 Report – April/May 2001 for Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine

EA CTO Manager: Alexander C. Easterday, P.G.

As per State of Maine Department of Professional and Financial Regulations, Title 32 Chapter 73, Law, the sections of this document related to geology and geologic data interpretation have been reviewed for its technical content by the undersigned State of Maine Certified Geologist.

Specifically, Section 1.2 and Figures 5, 6, and 7 of this document have been reviewed by the undersigned for their geological interpretive content. This statement is based upon the review of the undersigned conducted during the preparation of this report, as dated below.

Certified Geologist Reviewer

Gina M. Calderone 1-22-02

Gina M. Calderone, CPG (Date)
State of Maine Certified Geologist (No. GE442)

STATE OF MAINE
GINA M. CALDERONE
No. GE442
CERTIFIED GEOLOGIST

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1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order No. 0047, Engineering Facility Activity Northeast, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at Sites 1 and 3 and the Eastern Plume at Naval Air Station (NAS), Brunswick, Maine. NAS Brunswick is located south of the Androscoggin River between Brunswick and Cooks Corner, Maine. The locations of Sites 1 and 3 and the Eastern Plume are provided on Figure 1.

At Sites 1 and 3 and the Eastern Plume, the Navy is performing long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Record of Decision for a Remedial Action for Sites 1 and 3 (ABB-ES 1992), and the Record of Decision for No Further Action at Sites 4, 11, and 13 and a Remedial Action for the Eastern Plume (ABB-ES 1998). In 1994, a Long-Term Monitoring Plan (LTMP) was established for Sites 1 and 3 and the Eastern Plume (ABB-ES 1994). A draft revision to the 1994 LTMP was issued in October 1998 (EA 1998); and subsequent to Monitoring Event 14, a draft final version was issued in June 1999 (EA 1999). The draft LTMP document establishes the monitoring and sampling requirements for Sites 1 and 3 and the Eastern Plume and was used during Monitoring Event 15 (EA 1998). The Final LTMP document was issued in February 2000 (EA 2000a) and used during subsequent monitoring events.

Remedial actions at Sites 1 and 3 included construction of a low permeability slurry wall upgradient and surrounding 2 disposal trenches to a depth of approximately 90 ft, construction of a low permeability cap atop the landfill, and placement of 2 ground-water extraction wells (EW-6 and EW-7) within the landfill limits. Extraction wells within the landfill limits were deactivated on 19 November 1997 due to continually decreasing yields and stabilized water levels within the confines of the slurry wall. The source of the Eastern Plume has been identified as Sites 4, 11, and 13 (ABB-ES 1998). Ground water in the Eastern Plume is being remediated by a treatment system consisting of 4 ground-water extraction wells designed to provide hydraulic control of the aquifer, and a treatment plant to remove volatile organic compounds (VOCs) from the ground water prior to discharge.

The extraction system has been operational since April 1995. Extraction well EW-2A, located within the Eastern Plume in the vicinity of monitoring well MW-311, was activated on 12 June 1998 to provide additional VOC removal and hydraulic control in this area. On 27 September 2000, extraction well EW-2 was removed from service and decommissioned. Extraction well EW-3 is no longer operational and was removed from service in December 1998, and decommissioned on 27 September 2000. One replacement extraction well, EW-5A, was installed during September 2000 and brought online 10 January 2001. EW-5 was removed from service and decommissioned 5 January 2001. Monthly ground-water extraction and treatment system operations reports provided to the Brunswick Sewer District (provided separately)

summarize additional details related to treatment plant operations and maintenance. Figure 2 shows the gauging and sampling points of the long-term monitoring network, Figure 3 shows long-term monitoring locations where gauging is conducted, and Figure 4 shows points where long-term monitoring samples are collected, as specified in the Final LTMP (EA 2000a). The sampling and gauging points at Sites 1 and 3 and the Eastern Plume are summarized in Tables 1 and 2, respectively.

During Monitoring Event 18, the aqueous diffusion sampling pilot study (fourth pilot sampling event) was continued at several wells within the Eastern Plume and Sites 1 and 3. Previous pilot studies using aqueous diffusion samplers have been completed during Monitoring Event 15 (September 1999), Monitoring Event 16 (April 2000), and Monitoring Event 17 (September 2000), and indicated that aqueous diffusion samplers are useful in collecting representative ground-water samples (EA 1999[1], EA 2000a[2], EA 2000b[3]). Based on a comparison of historical data collected using low-flow sampling methods and the results of the previous aqueous diffusion sampler pilot studies, it was determined that one sampling interval could be monitored at each of the 10 monitoring wells included in those pilot studies to accurately track changes in VOC concentrations. These 10 initial monitoring wells will be referred to as "Pilot Test Group No. 1." The use of diffusion samplers was also expanded during Monitoring Event 18 to include the 15 remaining wells within the Eastern Plume; these wells are referred to as "Pilot Test Group No. 2." Details of the construction, deployment, and sample collection for the aqueous diffusion samplers are presented in the Summary of the April/May 2001 Aqueous Diffusion Sampling Pilot Study, Eastern Plume, dated 29 August 2001 (EA 2001[4]). The analytical data are summarized in Table A-3.

This Monitoring Event 18 Report provides the results for the April/May 2001 monitoring/ sampling event. The analytical data summary tables are presented in Appendix A. Appendix B provides field monitoring and sampling forms, Appendix C provides an analytical data quality review, and Appendix D provides the complete analytical report Form I laboratory data tables.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Field Activities

Water level measurements were obtained during Monitoring Event 18 on 13-19 April 2001 at the wells, piezometers, and surface water gauging locations indicated in Tables 1 and 2 for Sites 1 and 3 and the Eastern Plume, respectively.

1. EA Engineering, Science, and Technology. 1999. Letter Report Summary of the Aqueous Diffusion Sampling Pilot Study Conducted at the Eastern Plume, Naval Air Station, Brunswick, Maine. 3 December.
2. EA Engineering, Science, and Technology. 2000a. Final Long-Term Monitoring Plan. Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine. Prepared for Department of the Navy, Naval Facilities Engineering Command. February.
3. EA Engineering, Science, and Technology. 2000b. Letter Report Summary of the September 2000 Aqueous Diffusion Pilot Study, Eastern Plume, Naval Air Station, Brunswick, Maine. 30 November.
4. EA Engineering, Science, and Technology. 2001. Summary of the April/May 2001 Aqueous Diffusion Sampling Pilot Study, Eastern Plume, Naval Air Station, Brunswick, Maine. 29 August.

Figure 3 provides the locations of ground-water monitoring wells, piezometers, extraction wells, and surface water gauging stations where water elevation data were collected. Sampling and gauging procedures are detailed in the final report for Monitoring Event 4 (EA 1996) and in the Final LTMP (EA 2000a).

A total of 1.73 in. of precipitation was measured 1 week prior to and during the April 2001 gauging period.

1.2.2 Results

Ground-water elevation data are provided in Tables 3 and 4 for Sites 1 and 3 and the Eastern Plume, respectively. Surface water gauging station data are also presented in Table 4. Daily pumping rates for each extraction well for the period 1 October 2000 through 30 April 2001, which may affect ground-water potentiometric surface elevations, are provided in Table 5. Shallow and deep potentiometric surface contour maps were prepared based on the water level data collected on 13-19 April 2001 (Figures 5, 6, and 7). The shallow potentiometric surface contour maps are based upon data from wells and piezometers screened in the upper stratified silt/sand unit, while the deep potentiometric surface contour maps are based on data from wells and piezometers screened in the lower sand unit. The shallow interval is under unconfined conditions, while the deep interval is considered to be under semi-confined conditions due to the presence of the transition unit above and the Presumscot Clay formation below. The distinction between shallow and deep potentiometric surfaces was made to reflect differences in potentiometric head observed at depth in wells located across Sites 1 and 3 and the Eastern Plume, and to assess differing flow patterns that may be present in shallow and deep intervals. The interpreted ground-water flow direction for the 13-19 April 2001 gauging event is shown on Figure 5 for the shallow portions of the aquifer, and Figures 6 and 7 for the deep portions of the aquifer.

Note that wells MW-210A, MW-210R, and MW-211A located at Sites 1 and 3, and MW-308 and MW-309A in the Eastern Plume, are screened in bedrock at significantly lower depths than the deep overburden wells. MW-309B, a shallow bedrock well, is currently considered to be representative of the deep flow system, and is included on deep potentiometric surface maps (Figure 6). Consistent with previous monitoring events, the measured water elevations at these bedrock wells showed differing water elevations compared to nearby wells screened in the deep overburden and, therefore, data for these bedrock wells were not used in the development of overburden potentiometric surface contour maps.

At Sites 1 and 3, a comparison of water elevation data collected during long-term monitoring indicates water elevations have decreased in the vicinity of the slurry wall due to active pumping and placement of the slurry wall and landfill cap (Figure 8). In general, between Monitoring Events 17 and 18, the ground-water elevations vary slightly. The deepest known elevation of the bottom of waste material at Sites 1 and 3 has been reported to be 32.9 ft mean sea level (well MW-234R). The depth of ground water during April 2001 at monitoring well EW-6 was 36.02 ft

mean sea level, which indicates, at this time, that the ground-water potentiometric surface is rising above the bottom of the waste mass at this location (i.e., EW-6 as shown on Figure 5).

All monitoring well locations are secured with locks, and monitoring points are labeled.

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Field Activities

The ground-water sampling event was performed during the period 24 April – 3 May 2001 at Sites 1 and 3 and the Eastern Plume. Dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized at a majority of the wells to permit sampling using the low-flow sampling technique. Only 2 piezometers (P-106 and P-111) located in the Eastern Plume were sampled using a peristaltic pump due to small diameter casings.

At Sites 1 and 3, ground-water samples were collected from 7 of 8 monitoring wells specified in the Final LTMP (EA 2000a). The ground-water sample was collected from monitoring well MW-217B utilizing an aqueous diffusion sampler due to insufficient water for the low-flow sampling method. At the Eastern Plume, ground-water samples were collected from 28 wells and piezometers, and 3 of 4 extraction wells specified in the Final LTMP. A total of 25 monitoring wells were also sampled utilizing the aqueous diffusion sampler. Extraction well EW-1 was offline at the time of this sampling event. However, it was returned to service on 9 May 2001.

The ground-water extraction and treatment system was operational for 96.4 percent of available hours during 1 October – 30 April 2000 (Table 5). The operational percentage value is obtained from the monthly ground-water extraction and treatment system reports (EA 2000c, 2000d, 2001a, 2001b, 2001c, 2001d, 2001e). The reasons for the operational interruptions and a statement of the corrective actions taken are provided in the ground-water extraction and treatment system monthly operations reports, and will also be provided in the 2001 Annual Report.

A pilot study was conducted during Monitoring Event 18 at a total of 25 monitoring wells. The diffusion samplers were installed between 13 and 18 April in a total of 25 monitoring wells (Pilot Test Group No. 1 and No. 2 wells). One aqueous diffusion sampler was placed in each of the Pilot Test Group No. 1 wells; a total of 10 wells are in this group. In Pilot Test Group No. 1 wells, 8 aqueous diffusion samplers were placed in the bottom of the screen intervals and 2 aqueous diffusion samplers were placed in the top of the screened intervals (interval and the particular well are presented in Table A-3). Three aqueous diffusion samplers were placed at three separate intervals (top, middle, and bottom of the well screen) in each of the Pilot Test Group No. 2 wells; a total of 15 wells are in this group. The aqueous diffusion samplers were retrieved from 30 April through 3 May 2001, after they were allowed to equilibrate for approximately 14 days. The results of the aqueous diffusion pilot study for April/May 2001 are summarized in a separate letter report (EA 2001).

Tables 1 and 2 provide lists of the wells/piezometers gauged and sampled during Monitoring Event 18. A detailed description of low-flow ground-water sample collection methods is provided in the final report for Monitoring Event 4 (EA 1996).

1.3.2 Water Quality Indicator Parameter Measurements

Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were monitored to ensure stabilization of water quality prior to sample collection. Stabilization of water quality indicator parameters was considered achieved when measurements agreed to within 10 percent on three successive readings and turbidity was below 10 nephelometric turbidity units (NTUs). Although not required by the Final LTMP, oxidation-reduction potential was recorded for informational purposes to assess geochemical conditions.

At Sites 1 and 3, 7 of 8 monitoring wells reached equilibrium of the water quality indicator parameters during well purging. A total of 2 of 7 monitoring wells (MW-219 and MW-2101) reached equilibrium but had turbidity measurements in excess of 10 NTUs. The elevated turbidity is not expected to affect the quality of the sample data. It should be noted that monitoring well MW-217B was sampled with an aqueous diffusion sampler. Therefore, there was only one set of water quality parameter readings available, which were collected after the aqueous diffusion sampler was removed from the well.

At the Eastern Plume, 14 of 18 wells/piezometers reached equilibrium of the water quality indicator parameters during well purging. It should be noted that 10 of 28 monitoring wells sampled within the Eastern Plume were sampled with diffusion samplers only and, therefore, only one set of water quality parameters was collected in-well following aqueous diffusion sampling of those 10 monitoring wells. Four monitoring wells (MW-231B, MW-318, MW-330, and P-106) had one water quality parameter (turbidity), which did not stabilize to within 10 percent on three successive readings. Thirteen of 18 wells/piezometers sampled (MW-207A, MW-225A, MW-230A, MW-231A, MW-303, MW-305, MW-309B, MW-313, MW-333, MW-334, MW-1104, P-111, and P-132) reached equilibrium but had turbidity measurements in excess of 10 NTUs. It appears that the elevated turbidity reading may be a result of retrieving the diffusion samplers and reinstalling the sampling pump.

1.3.3 Water Quality Indicator Parameter Results

Results of water quality indicator parameter monitoring at the time samples were collected are summarized in Tables 6 and 7 for ground-water samples collected at Sites 1 and 3 and the Eastern Plume, respectively. Table 8 summarizes the results of water quality parameters collected following the removal of the diffusion samplers, prior to low-flow sampling. Water quality indicator parameters measured at the time the water samples were collected from extraction wells, the treatment plant combined influent, and the treated effluent samples are summarized in Table 9. The Field Record of Well Gauging, Purging, and Sampling forms and Field Record of Surface Water/Sediment Sampling forms are provided in Appendix B.

Notable results of water quality indicator parameter measurements for ground water are described below for informational purposes, although sample data quality is not expected to be adversely impacted.

1.3.3.1 Sites 1 and 3

- Two of 7 wells (MW-219 and MW-2101) had reported a turbidity value in excess of 10 NTUs (22 and 11 NTUs, respectively).

- An elevated level of conductivity (i.e., above 1,000 µmhos) was measured at MW-218 (1,110 µmhos) compared to other wells at Sites 1 and 3. Monitoring well MW-218 is located south of the landfill, and elevated conductivity has been reported sporadically throughout previous monitoring events.

- An elevated dissolved oxygen concentration above saturation (>9.0 mg/L) was noted in 1 shallow well at Sites 1 and 3 (MW-204 [11.4 mg/L]), which is consistent with historic data. An elevated dissolved oxygen concentration was also measured in MW-240 (11.0 mg/L).

- Reduced dissolved oxygen concentrations (<2.0 mg/L) were noted in 1 shallow and 1 deep monitoring well at Sites 1 and 3. Shallow well MW-217B had a dissolved oxygen concentration of 0.6 mg/L and deep monitoring well MW-218 had a dissolved oxygen concentration of 0.7 mg/L. These data are consistent with data collected from the previous sampling events.

1.3.3.2 Eastern Plume

- Turbidity values below 10 NTUs were recorded at 1 of 18 monitoring wells and piezometers sampled. Turbidity values stabilized at 14 of 18 locations prior to sample collection. Elevated turbidity measurements appear to be a result of the removal of the diffusion samplers and the reinstallation of the sampling pump.

- Elevated dissolved oxygen concentrations above saturation (>9.0 mg/L) were measured in samples from 3 wells at the Eastern Plume: MW-231A (9.3 mg/L), MW-231B (10.9 mg/L), and P-132 (10.9 mg/L).

- Reduced dissolved oxygen concentrations (<2.0 mg/L) were measured in the samples from 1 shallow piezometer and 1 shallow, 6 deep, and 2 bedrock monitoring wells. The reduced dissolved oxygen concentrations ranged from 0.2 to 1.0 mg/L.

1.3.3.3 Comparison of Low-Flow Versus Aqueous Diffusion Collected Samples

- Temperature and conductivity were higher in low-flow samples as opposed to diffusion samples for all wells.

- In general, pH results were found to be slightly lower in the samples collected from the monitoring wells sampled by diffusion sampling techniques compared to the samples collected by low-flow sampling methods.

- Dissolved oxygen concentrations for the low-flow collected samples were, in general, lower in the shallow and deep monitoring wells and higher in the bedrock monitoring wells and shallow piezometer.

- There was no clear trend for comparison of the Eh results.

1.3.3.4 Ground-Water Extraction and Treatment System

- There were no elevated dissolved oxygen concentrations (>9 mg/L) recorded in 3 of 4 active extraction wells sampled or in the combined effluent.

1.3.4 Ground-Water Analytical Program

Ground-water samples collected from Sites 1 and 3 and the Eastern Plume were submitted for analysis of Target Compound List VOCs by U.S. Environmental Protection Agency (EPA) Method 8260B. Ground-water samples collected from Sites 1 and 3 were further analyzed for Target Analyte List elements, including metals by inductively coupled plasma (EPA Method 6010), graphite furnace (EPA Method 7000 Series), and mercury by cold vapor atomic adsorption (EPA Method 7470). It should be noted that monitoring well MW-217B at Sites 1 and 3 was not analyzed for Target Analyte List elements, as it was sampled utilizing an aqueous diffusion sampler. Chromium was analyzed by inductively coupled plasma (EPA Method 6010) as specified in the Final LTMP; the precision and accuracy objectives and reporting requirements identified in the Final LTMP were met.

1.3.5 Ground-Water Sampling Results

1.3.5.1 Sites 1 and 3

Appendix Tables A-1 and A-2 provide a summary of the analytical results for the ground-water samples collected at Sites 1 and 3. Laboratory Form I tables are provided in Appendix D.

1.3.5.2 Eastern Plume

Table A-3 summarizes the analytical results for the ground-water samples collected at the Eastern Plume. A total of 25 of 28 Eastern Plume ground-water samples were collected utilizing the diffusion sampling method. A total of 18 of 28 ground-water samples were also collected via the low-flow sampling method. Table 10 presents the wells that were sampled by low-flow and/or aqueous diffusion methods. Laboratory Form I tables are provided in Appendix D.

1.3.5.3 Total Volatile Organic Compound Isoconcentration Maps

The detected total VOC concentrations and interpreted isocontours for wells screened in the unconfined shallow interval at Sites 1 and 3 and the Eastern Plume are shown on Figure 9.

The detected total VOC concentrations and interpreted isocontours for wells screened within the deep interval are shown on Figure 10.

1.3.5.4 Ground-Water Extraction and Treatment System

Table A-4 provides a summary of the VOCs detected in ground-water extraction wells, treatment system influent, and treatment system combined effluent samples collected at the ground-water extraction and treatment system. The laboratory data Form I tables are provided in Appendix D.

1.4 SURFACE WATER AND SEEP SAMPLING AND ANALYSIS

1.4.1 Sampling Activities

The surface water, leachate seep, and leachate seep sediment samples at Sites 1 and 3 and surface water and seep samples at the Eastern Plume were collected between 23 April and 2 May 2001 in accordance with the general methodologies established in the Final LTMP (EA 2000a) with the exception of the collection, preservation, and analysis of sediment samples by using EPA Method 5035.

Surface water, leachate seep, and leachate seep sediment samples at Sites 1 and 3 and surface water and seep samples at the Eastern Plume were collected for analysis of Target Compound List VOCs by EPA Method 8260B (Tables 1 and 2). Selected surface water, leachate seep, and leachate seep sediment samples at Sites 1 and 3 were additionally analyzed for Target Analyte List elements, including metals by inductively coupled plasma (EPA Method 6010), graphite furnace (EPA Method 7000 series), and mercury by cold vapor atomic adsorption (EPA Method 7470). Chromium was analyzed by inductively coupled plasma (EPA Method 6010). The precision and accuracy objectives and reporting requirements identified in the Final LTMP were met.

1.4.2 Water Quality Indicator Parameter Measurement

Tables 11 and 12 provide a summary of the water quality indicator parameter measurements at the time the surface water and leachate seep samples were collected at Sites 1 and 3 and the Eastern Plume, respectively. The field data sheets for these surface water and leachate seep sample locations are provided in Appendix B.

Notable results of water quality indicator parameters include the following:

- One leachate seep (SEEP-3) was dry, therefore, water quality parameters could not be measured.

1.4.3 Laboratory Results

1.4.3.1 Surface Water

Sites 1 and 3

Tables A-5 and A-6 provide a summary of the VOCs and Target Analyte List elements detected in surface water samples collected at Sites 1 and 3. The reports of laboratory analyses (Form I tables) are provided in Appendix D.

Eastern Plume

Table A-7 provides a summary of the VOCs detected in surface water samples collected at the Eastern Plume. The reports of laboratory analyses (Form I tables) are provided in Appendix D.

1.4.3.2 Leachate Seep Samples

Sites 1 and 3

Tables A-8 and A-9 provide a summary of the constituents detected in leachate seep samples collected at Sites 1 and 3. The analytical reports (Form I tables) are provided in Appendix D.

Eastern Plume

Table A-10 provides a summary of the constituents detected in seep samples collected at the Eastern Plume. The analytical reports (Form I tables) are provided in Appendix D.

1.4.3.3 Leachate Sediment Samples

Sites 1 and 3

Tables A-11 and A-12 provide a summary of the constituents detected in the leachate seep sediment samples collected at Sites 1 and 3. Analytical reports (Form I tables) are provided in Appendix D.

1.5 LANDFILL CAP INSPECTION

1.5.1 Inspection Activities

The engineering inspection of the landfill cap and appurtenances was conducted on 24 April 2001. The stormwater detention basins appeared in good condition. There was no evidence of erosion or exposure of the geotextile cover during the inspection. Animal burrows were noted in the vicinity of monitoring well MW-217A. These burrows will not affect the integrity of the cap

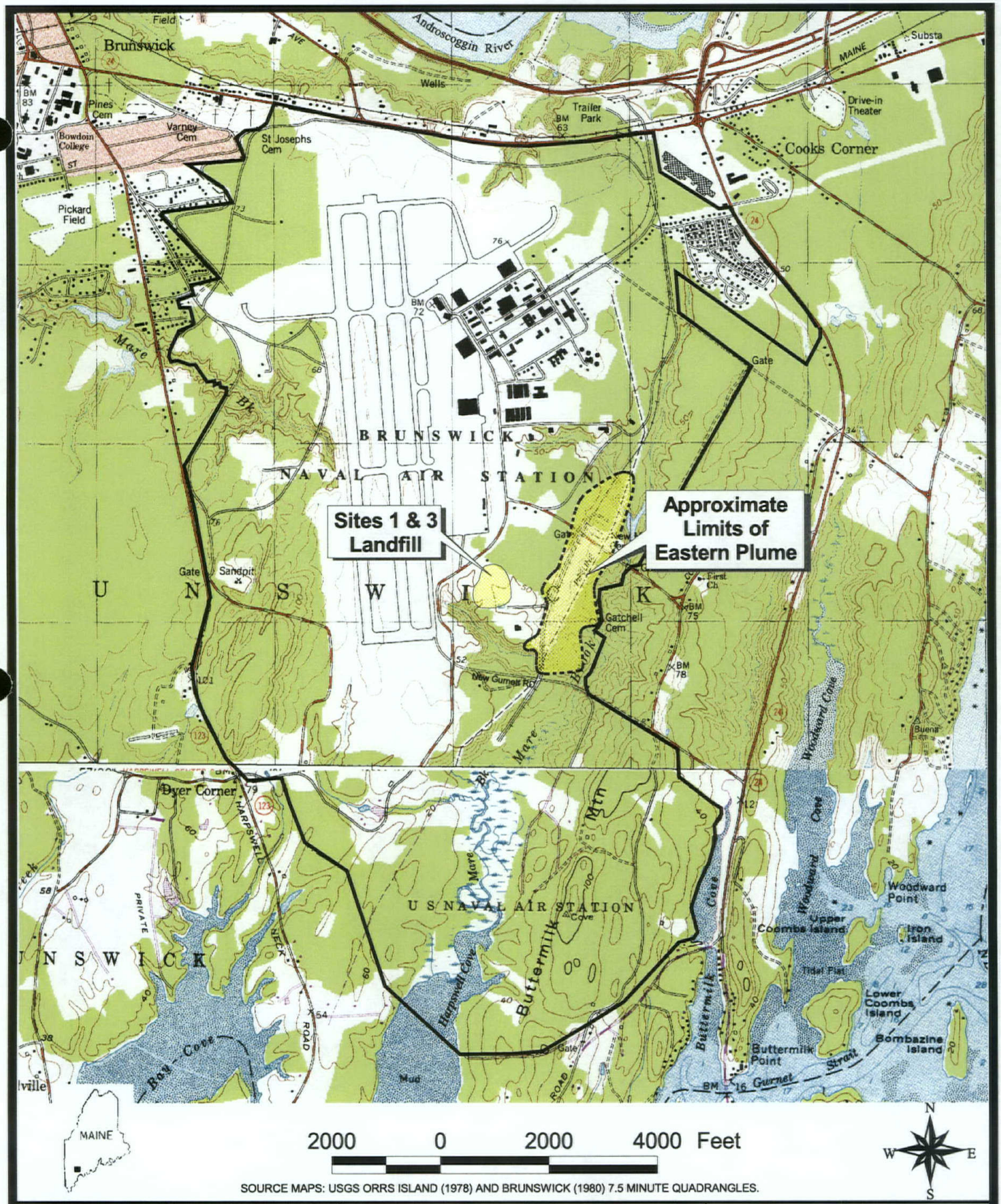
or the well. Standing water (approximately 1-2 ft) was noted in extraction well EW-6 vault. The vent cap for the EW-6 vault was found broken and will be replaced. The standing water has been pumped out of the vault.

1.6 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required to meet the data quality objectives of the aqueous and sediment sampling program, as outlined in the Quality Assurance Project Plan contained in the Final LTMP (EA 2000a). The data obtained during the April 2000 sampling event were determined to be of sufficient quality to be used for the objectives specified in the Final LTMP (EA 2000a).

1.7 ANALYTICAL DATA QUALITY REVIEW

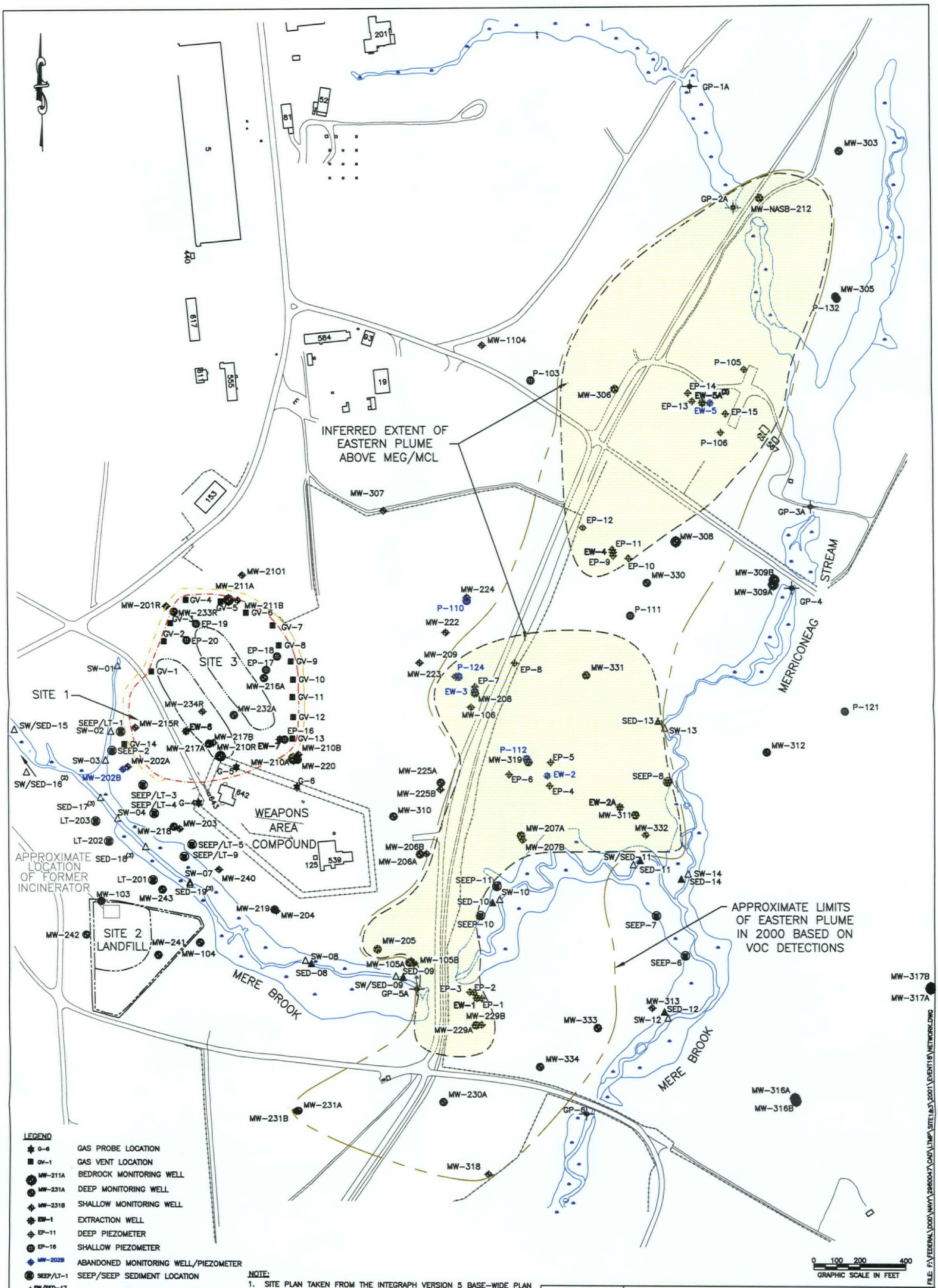
As required by the Quality Assurance Project Plan contained in the Final LTMP (EA 2000a), a review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, representativeness, completeness, and comparability and data quality objective requirements. A summary of the quality assurance/quality control analytical data is presented in Tables A-13 through A-15. A summary of the analytical data quality review for chemical data is provided in Appendix C. With consideration of the data qualifiers and notes provided in Appendix C, the data represented in this report were found to meet specified acceptance criteria and, therefore, represent data in compliance with the Quality Assurance Project Plan (EA 2000a). Method detection limits for sediment and aqueous media are included in Appendix C.1. Notable findings of the analytical data quality review are summarized in Table 13.



SOURCE MAPS: USGS ORRS ISLAND (1978) AND BRUNSWICK (1980) 7.5 MINUTE QUADRANGLES.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	SITES 1 AND 3 AND EASTERN PLUME NAVAL AIR STATION, BRUNSWICK, MAINE	FIGURE 1 SITE LOCATION MAP

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
ACE	BT	BT	ACE	AS SHOWN	6 MARCH 2000	29600.47	I:\NASB_GIS \NAVY.APR



LEGEND

- G-6 — GAS PROBE LOCATION
- GV-1 — GAS VENT LOCATION
- MW-211A — BEDROCK MONITORING WELL
- MW-231A — DEEP MONITORING WELL
- MW-231B — SHALLOW MONITORING WELL
- EW-1 — EXTRACTION WELL
- EP-11 — DEEP PIEZOMETER
- EP-16 — SHALLOW PIEZOMETER
- MW-202B — ABANDONED MONITORING WELL/PIEZOMETER
- SEEP/LT-1 — SEEP/SEEP SEDIMENT LOCATION
- SW/SED-17 — SURFACE WATER/SEDIMENT LOCATION
- GP-5A — SURFACE WATER GAUGING POINT
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 AND 3
- APPROXIMATE LIMITS OF FORMER DISPOSAL TRENCHES
- APPROXIMATE BOUNDARY OF SITE 2 LANDFILL
- APPROXIMATE LIMITS OF EASTERN PLUME IN 2000
- INFERRED EXTENT OF EASTERN PLUME ABOVE MEG/MCL

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. SW-16 LOCATED APPROXIMATELY 1,000 FT UPSTREAM OF SITES 1 AND 3.
3. APPROXIMATE SAMPLE LOCATION SHOWN.
4. INFERRED EXTENT OF EASTERN PLUME ABOVE MEG/MCL BASED ON MONITORING EVENT 17 DATA (SEPTEMBER 2000).

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 2

LONG-TERM MONITORING NETWORK

DATE	19 MARCH 2001
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CHECKED BY	SYC
PROJECT MANAGER	AE

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	NETWORK.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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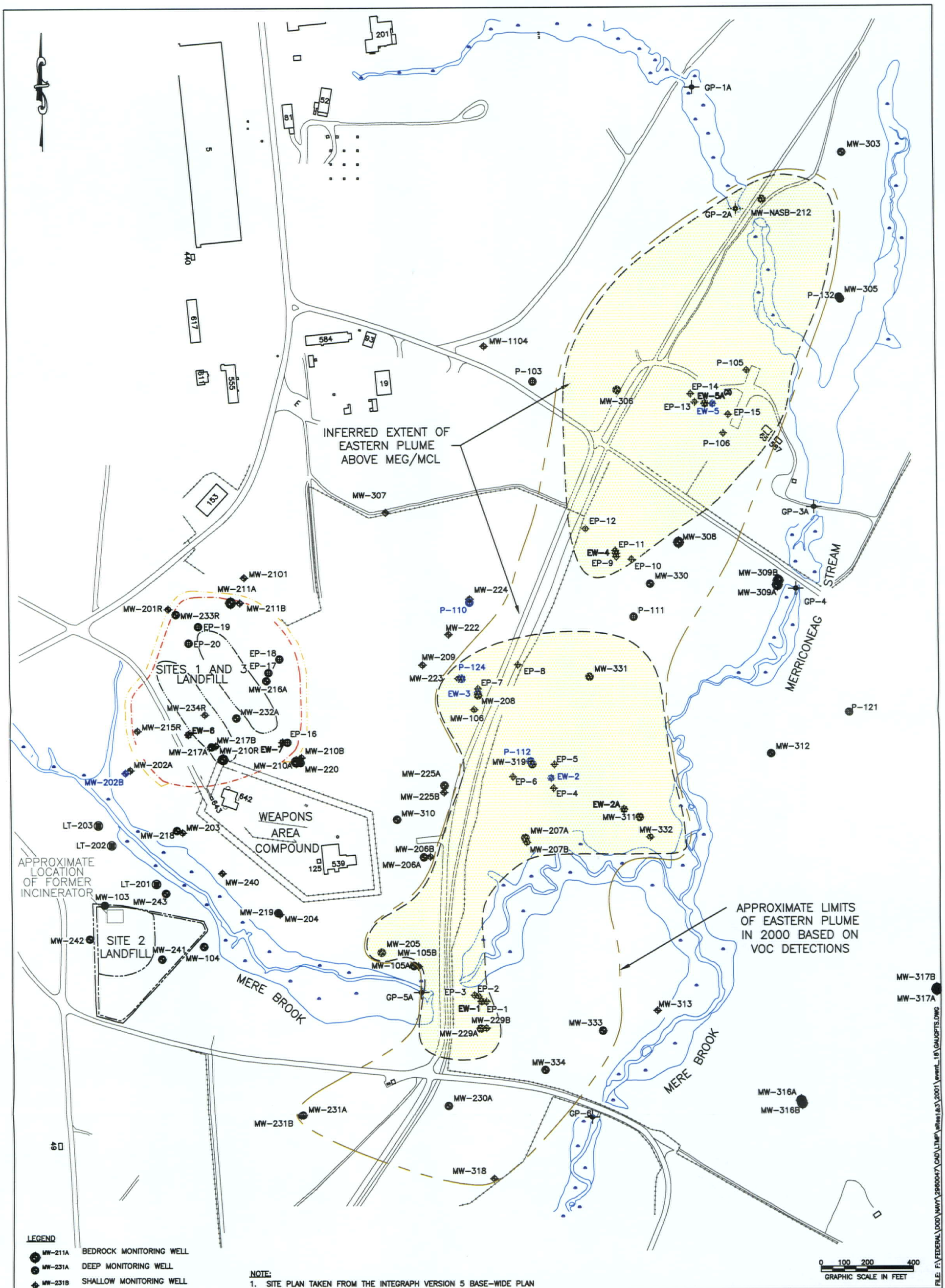

LEGEND

- MW-211A BEDROCK MONITORING WELL
- MW-231A DEEP MONITORING WELL
- MW-231B SHALLOW MONITORING WELL
- EW-1 EXTRACTION WELL
- EP-11 DEEP PIEZOMETER
- EP-16 SHALLOW PIEZOMETER
- GP-5 SURFACE WATER GAUGING POINT
- MW-202B ABANDONED MONITORING WELL/PIEZOMETER
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION
- APPROXIMATE LIMITS OF EASTERN PLUME IN 2000
- INFERRED EXTENT OF EASTERN PLUME ABOVE MEG/MCL
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 AND 3
- APPROXIMATE BOUNDARY OF SITE 2 LANDFILL
- APPROXIMATE LIMITS OF FORMER DISPOSAL TRENCHES

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. INFERRED EXTENT OF EASTERN PLUME ABOVE MEG/MCL BASED ON MONITORING EVENT 17 DATA (SEPTEMBER 2000).
3. APPROXIMATE SAMPLE LOCATION SHOWN.

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 3

LONG-TERM MONITORING GAUGING LOCATIONS

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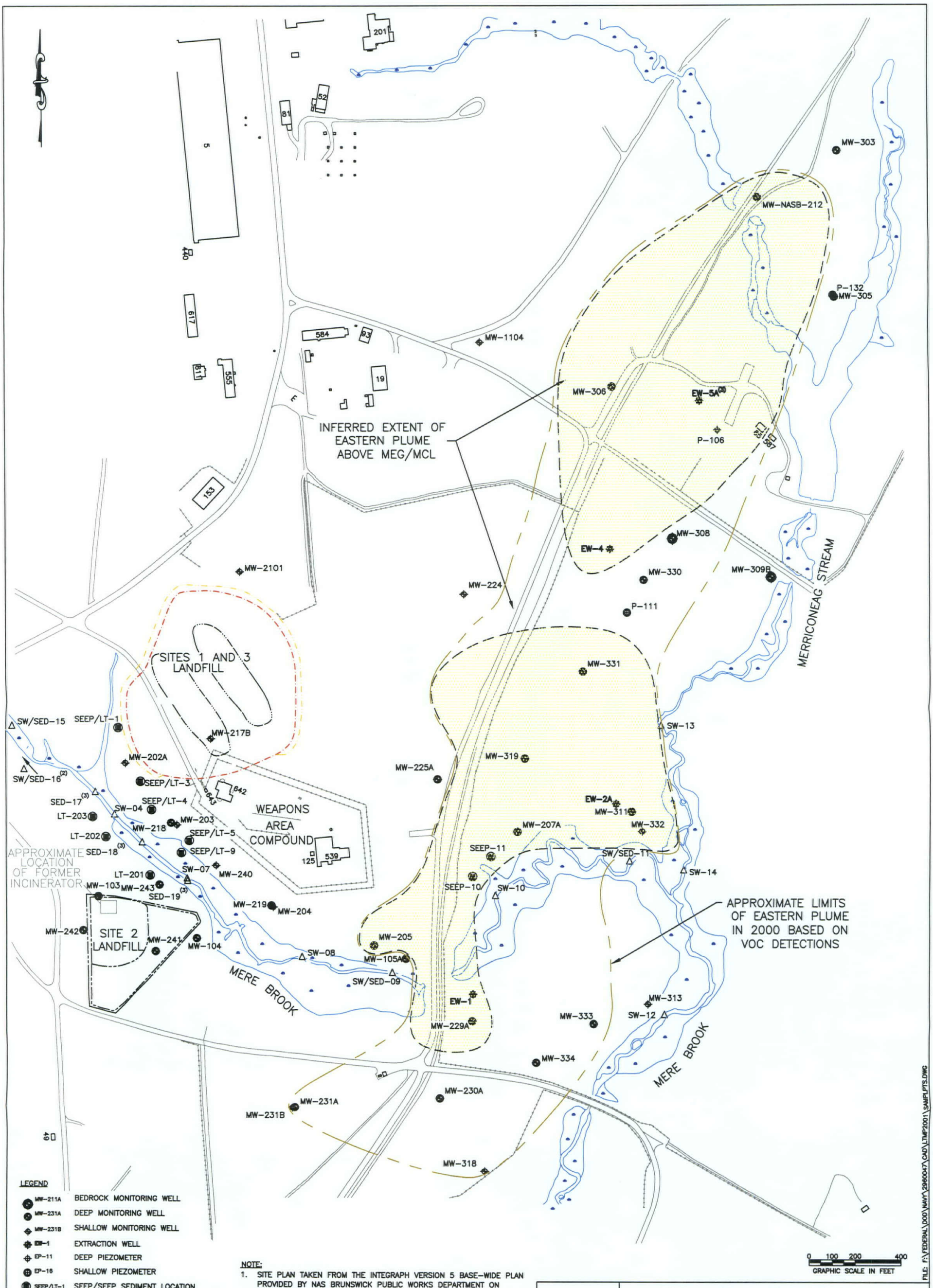
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	GAUGPTS.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

FILE: F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\sites1&3\2001\event_18\GAUGPTS.DWG



LEGEND

- MW-211A — BEDROCK MONITORING WELL
- MW-231A — DEEP MONITORING WELL
- MW-231B — SHALLOW MONITORING WELL
- EW-1 — EXTRACTION WELL
- EP-11 — DEEP PIEZOMETER
- EP-16 — SHALLOW PIEZOMETER
- SEEP/LT-1 — SEEP/SEEP SEDIMENT LOCATION
- SW/SED-11 — SURFACE WATER/SEDIMENT LOCATION
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 AND 3
- APPROXIMATE BOUNDARY OF SITE 2 LANDFILL
- APPROXIMATE LIMITS OF FORMER DISPOSAL TRENCHES
- APPROXIMATE LIMITS OF EASTERN PLUME IN 2000
  INFERRED EXTENT OF EASTERN PLUME ABOVE MEG/MCL
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. SW-16 LOCATED APPROXIMATELY 1,000 FT UPSTREAM OF SITES 1 AND 3.
3. APPROXIMATE SAMPLE LOCATION SHOWN.
4. INFERRED EXTENT OF EASTERN PLUME ABOVE MEG/MCL BASED ON MONITORING EVENT 17 DATA (SEPTEMBER 2000).

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 4

LONG-TERM MONITORING SAMPLING LOCATIONS

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SAMPLPTS.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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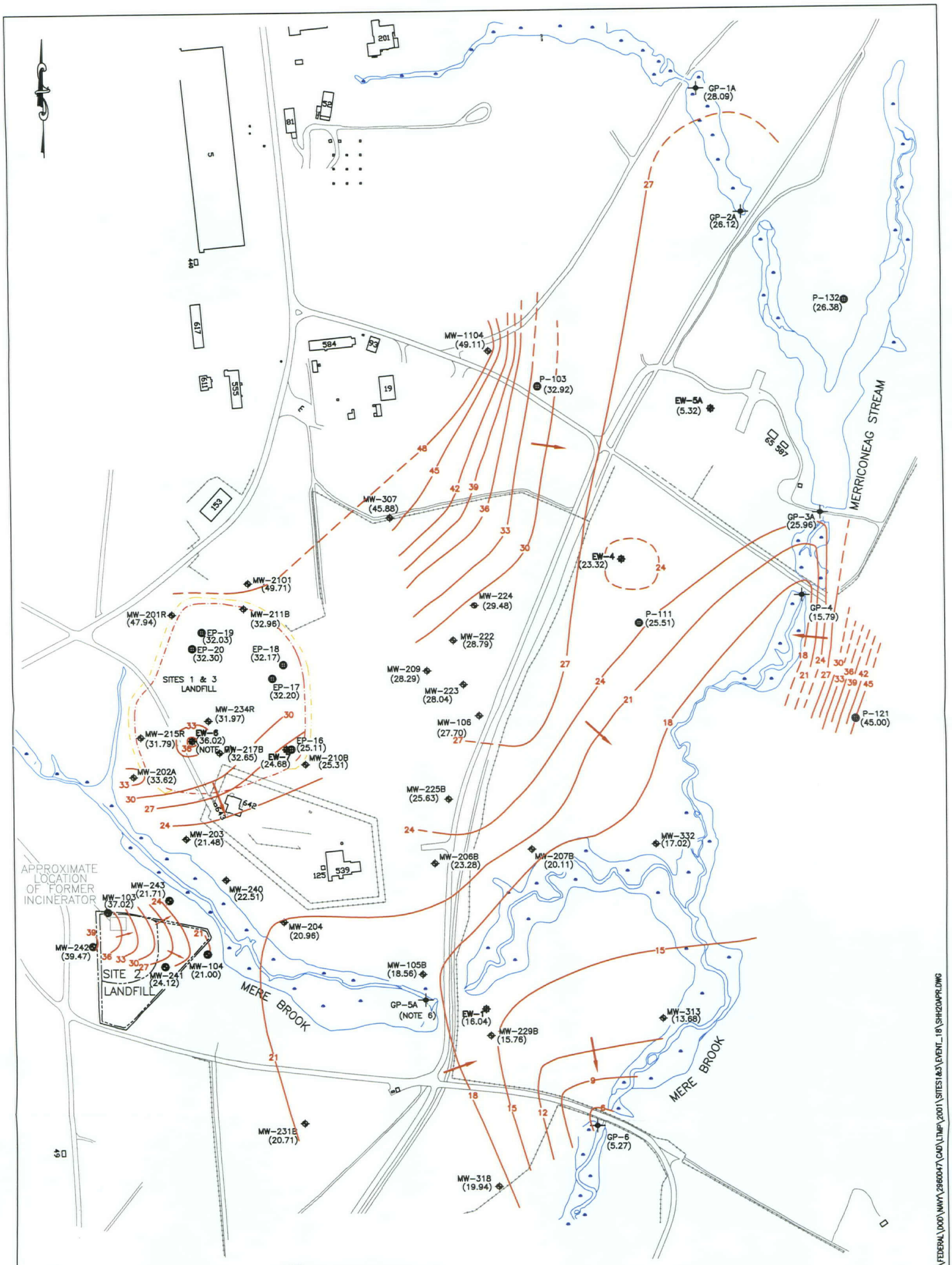

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LEGEND

- MW-231B (20.71) SHALLOW MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW-1 (16.04) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP-16 (25.11) SHALLOW PIEZOMETER (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- GP-6 (5.27) SHALLOW PIEZOMETER (SURFACE WATER ELEVATION, FT MSL)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTE:

1. WATER LEVEL DATA COLLECTED 13–19 APRIL 2001. 1.73 IN. OF PRECIPITATION (RAIN) WAS NOTED 1 WEEK BEFORE AND DURING GAUGING PERIOD.
2. EXTRACTION WELLS EW-2A, EW-4 AND EW-5A WERE IN OPERATION DURING WELL GAUGING ACTIVITY.
3. CONTOUR INTERVAL = 3 FT.
4. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
5. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
6. DAM LOCATED DOWN STREAM OF GAUGE POINT. WATER LEVEL FALSELY RAISED.
7. 2.5 FT OF WATER IN VAULT. UNABLE TO CHECK STATUS OF BOTTOM OF VAULT. PREVIOUSLY REPORTED THAT THE VAULT APPEARED TO BE SINKING.

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 5
INTERPRETED SHALLOW GROUND-WATER POTENTIOMETRIC SURFACE CONTOUR MAP, 13 – 19 APRIL 2001

DATE	22 MAY 2001
DESIGNED BY	PLN
DRAWN BY	SAP
CHECKED BY	SYC
PROJECT MANAGER	AE

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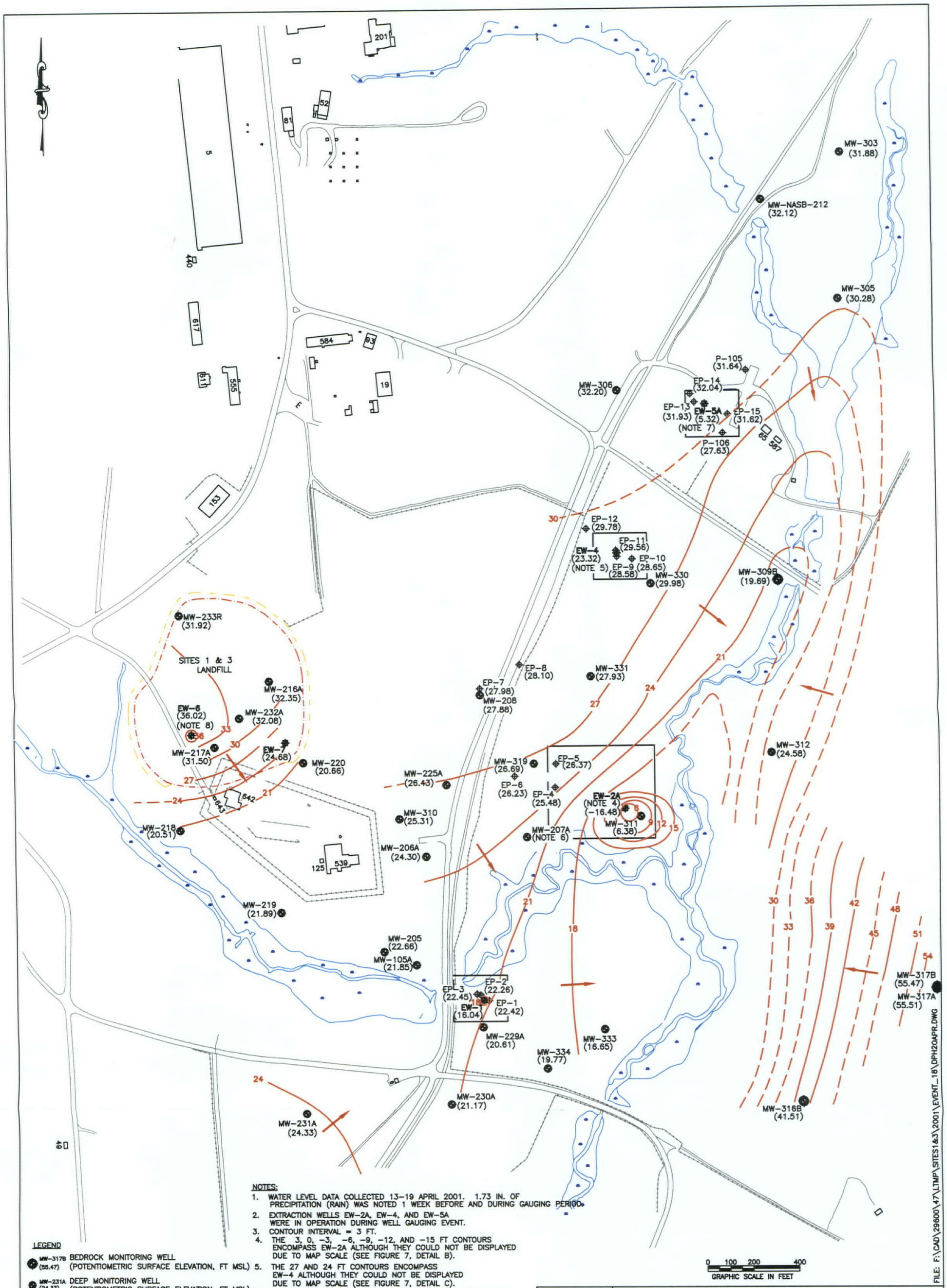
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SHH20APR.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



NOTES:

1. WATER LEVEL DATA COLLECTED 13–19 APRIL 2001. 1.73 IN. OF PRECIPITATION (RAIN) WAS NOTED 1 WEEK BEFORE AND DURING GAUGING PERIOD.
2. EXTRACTION WELLS EW–2A, EW–4, AND EW–5A WERE IN OPERATION DURING WELL GAUGING EVENT.
3. CONTOUR INTERVAL = 3 FT.
4. THE 3, 0, –3, –6, –9, –12, AND –15 FT CONTOURS ENCOMPASS EW–2A ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 7, DETAIL B).
5. THE 27 AND 24 FT CONTOURS ENCOMPASS EW–4 ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 7, DETAIL C).
6. UNABLE TO GAUGE; BROKEN PVC CASING. WELL SCHEDULED FOR REPLACEMENT.
7. THE 30, 27, 24, 21, 18, 15, 12, 9, AND 6 FT CONTOURS ENCOMPASS EW–5A ALTHOUGH THEY COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 7, DETAIL D).
8. 2.5 FT OF WATER IN VAULT. UNABLE TO CHECK STATUS OF BOTTOM OF VAULT PREVIOUSLY REPORTED THAT THE VAULT APPEARED TO BE SINKING.
9. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE–WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
10. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
11. THE 18 FT CONTOUR ENCOMPASSES EW–1 ALTHOUGH IT COULD NOT BE DISPLAYED DUE TO MAP SCALE (SEE FIGURE 7, DETAIL A).

LEGEND

- MW–317B (55.47) BEDROCK MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- MW–231A (24.33) DEEP MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW–1 (16.04) EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP–11 (29.56) DEEP PIEZOMETER (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 GROUND–WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND–WATER FLOW DIRECTION
- BOXED AREA IS DETAILED ON FIGURE 7

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 6

INTERPRETED DEEP GROUND–WATER POTENTIOMETRIC SURFACE CONTOUR MAP, 13 – 19 APRIL 2001

DATE	22 MAY 2001
DESIGNED BY	SYC
DRAWN BY	SAP
CHECKED BY	SYC
PROJECT MANAGER	AE
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	DPH20APR.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

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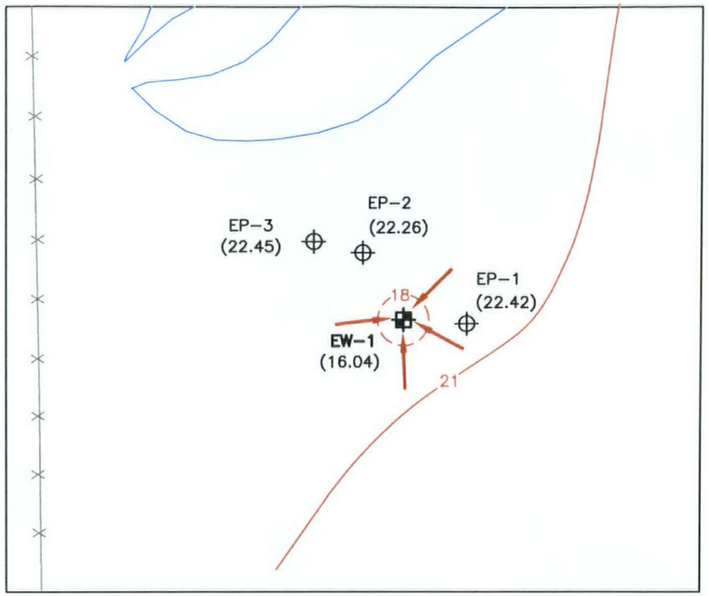
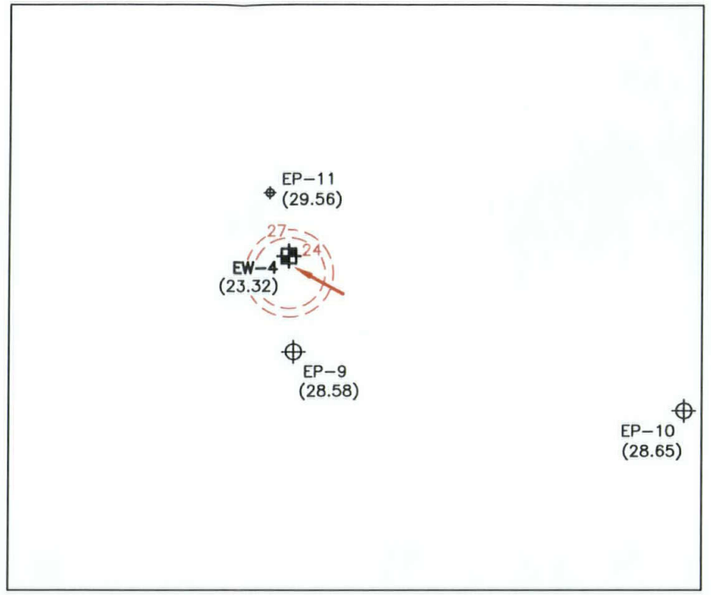
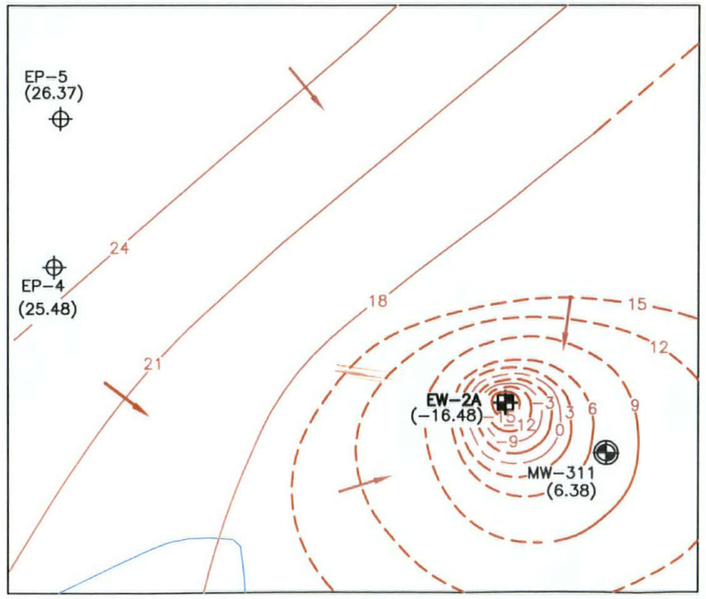


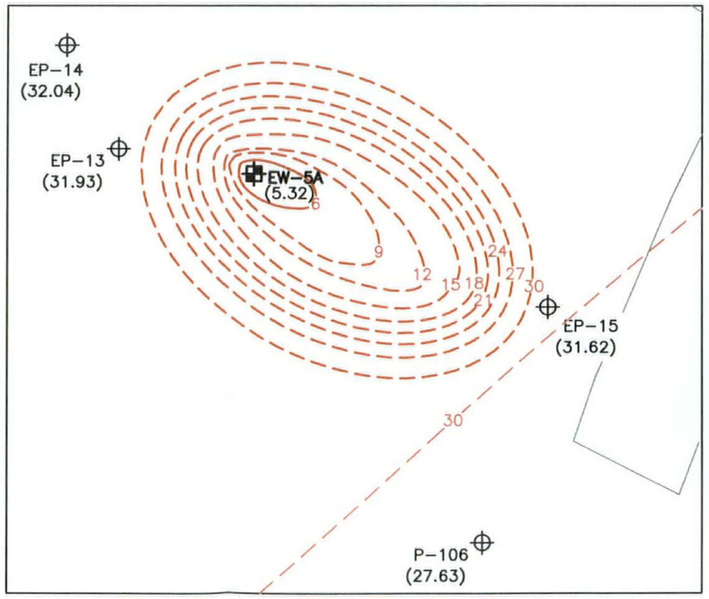
DETAIL A



DETAIL C



DETAIL B



DETAIL D

GRAPHIC SCALE IN FEET

LEGEND

- MW-311 (6.38) — DEEP MONITORING WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EW-4 (23.32) — EXTRACTION WELL (POTENTIOMETRIC SURFACE ELEVATION, FT MSL)
- EP-10 (28.65) — PIEZOMETER (WATER TABLE ELEVATION, FT MSL)
- 27 — GROUND-WATER CONTOUR (FT MSL) (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTES:

1. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
2. INFERRED CONE OF DEPRESSION SHOWN WHERE MINIMAL DATA ARE PRESENT. CONE OF DEPRESSION MAY BE SMALLER THAN INFERRED SIZE.

FILE: F:\FEDERAL\DOD\NAVY\29600047\CAD\LTMP\2001\SITES1&3\EVENT_18\DPEXAPR.DWG

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 7
EXTRACTION WELL DETAIL MAP, 13-19 APRIL 2001
DEEP POTENTIOMETRIC SURFACE

DATE	22 MAY 2001
DESIGNED BY	SAP
DRAWN BY	SAP
CHECKED BY	SYC
PROJECT MANAGER	AE
PROJECT NUMBER	29600.47
SCALE	AS SHOWN
FILE NAME	DPEXAPR.DWG
DRAWING NUMBER	--
SHEET NUMBER	--

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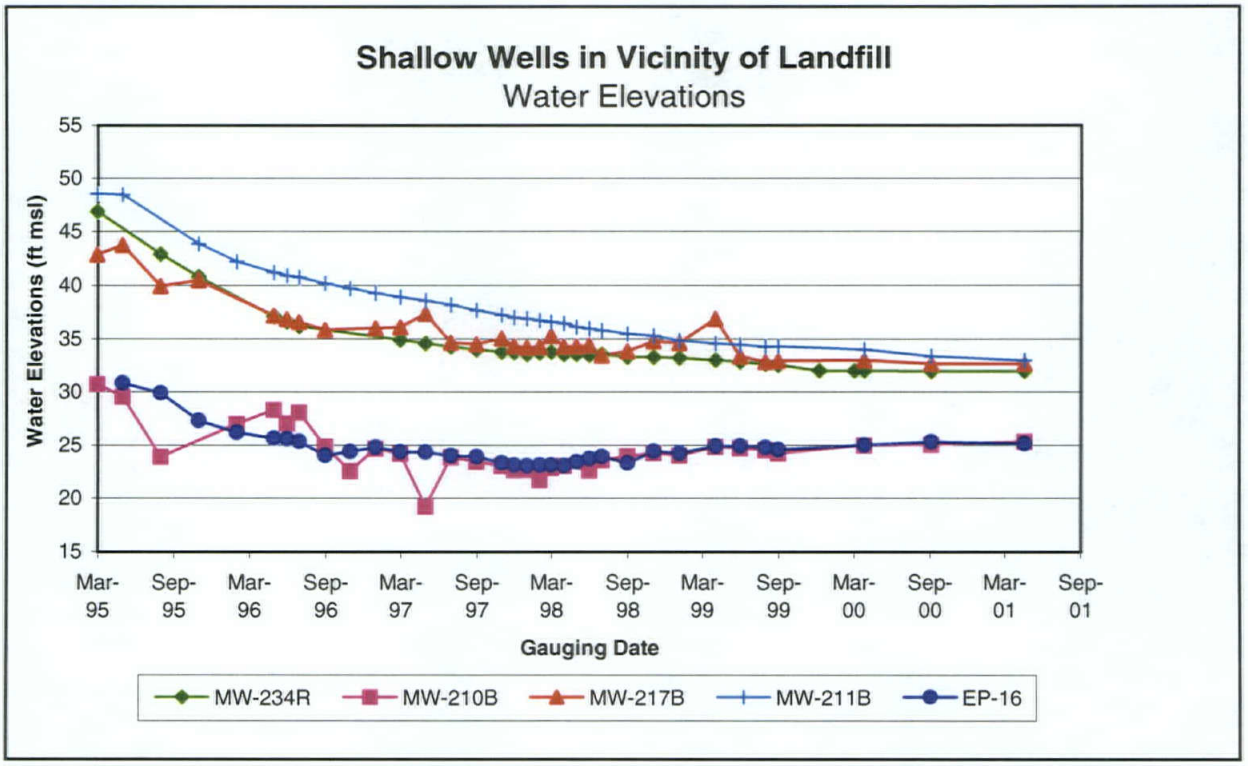
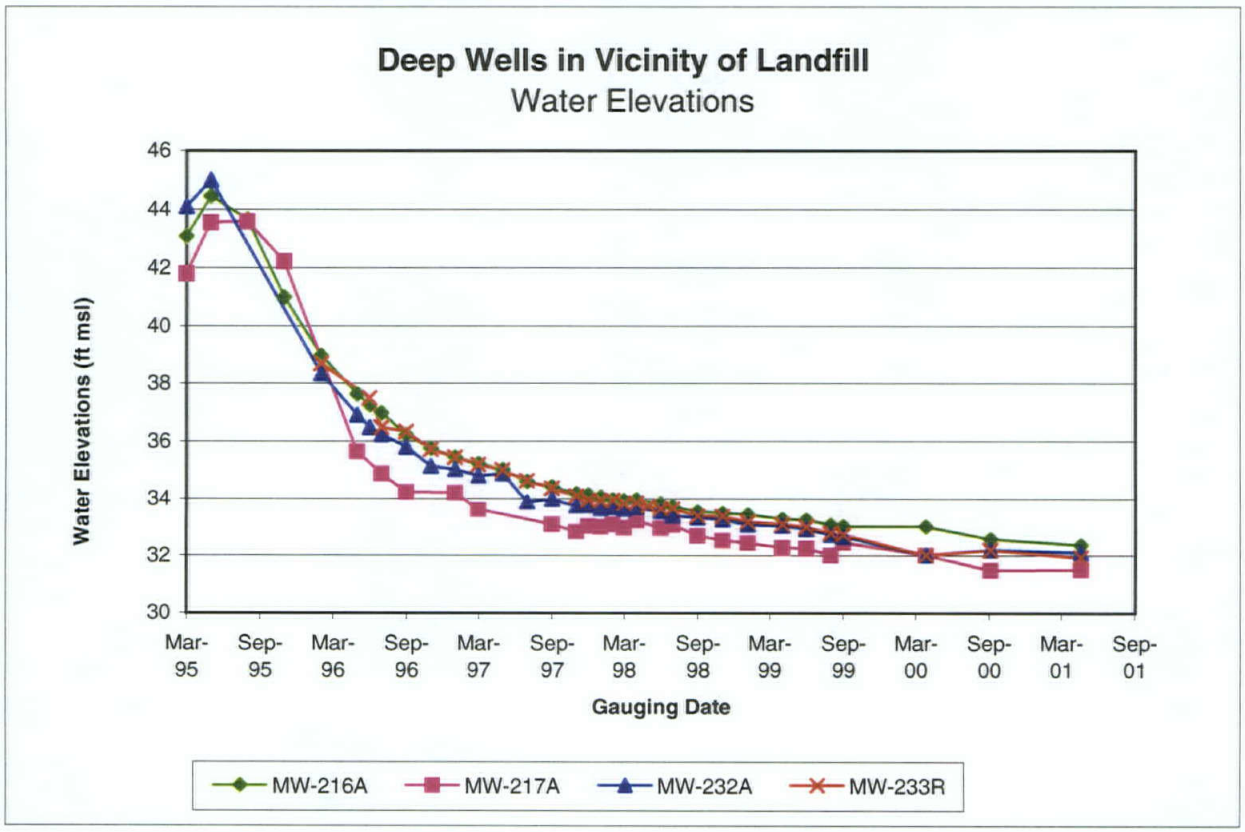
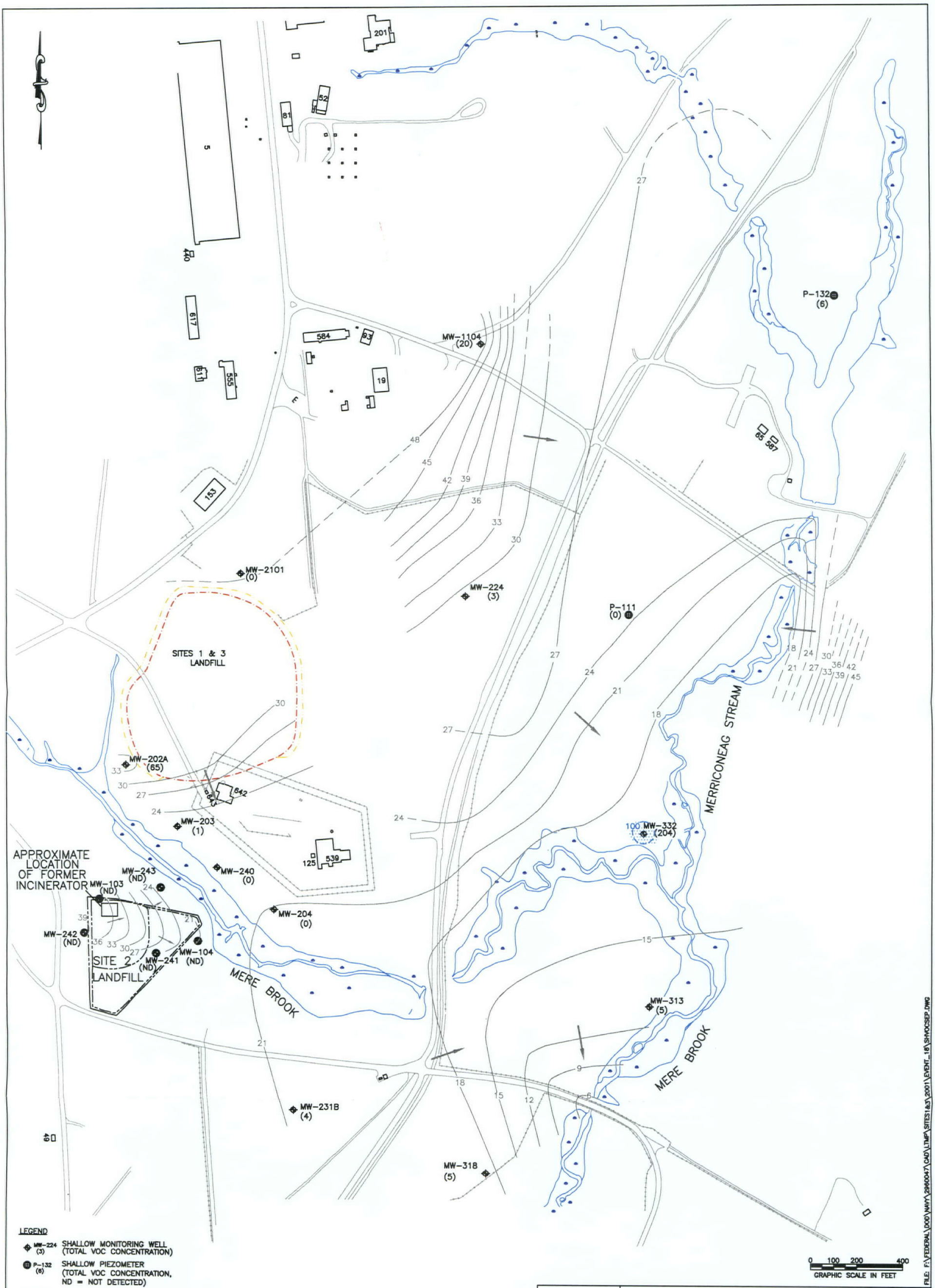




F:\Federal\DoD\Navy\2960047\Monitoring Events\Qtrly18\Sites1&3\[Figure 8.xls]Figure 8

Figure 8. Water elevations within Sites 1 and 3 Landfill, shallow and deep wells.



FILE: F:\FEDERAL\DOD\NAVY\29600047\CAD\LTMP\SITES1&3\2001\EVENT_18\SHVOCSEP.DWG

LEGEND

- MW-224 (3) — SHALLOW MONITORING WELL (TOTAL VOC CONCENTRATION)
- P-132 (6) — SHALLOW PIEZOMETER (TOTAL VOC CONCENTRATION, ND = NOT DETECTED)
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION
- 100 — 100 ug/L TOTAL VOC CONTOUR (DASHED WHERE INFERRED)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- 27 — GROUND-WATER CONTOUR (FT MSL) FOR 13 – 18 APRIL 2001 FROM FIGURE 5 (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
3. SITE 2, TOTAL VOC CONCENTRATIONS ARE PROVIDED IN THE MONITORING EVENT 3 REPORT FOR SITE 2, AUGUST 2001 (SEE TABLE A-1)
4. ND = Not detected

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 9
INTERPRETED TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATION CONTOUR MAP
SHALLOW WELLS, MONITORING EVENT 18

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DESIGNED BY	SAP
DRAWN BY	SAP
CHECKED BY	SYC
PROJECT MANAGER	AE

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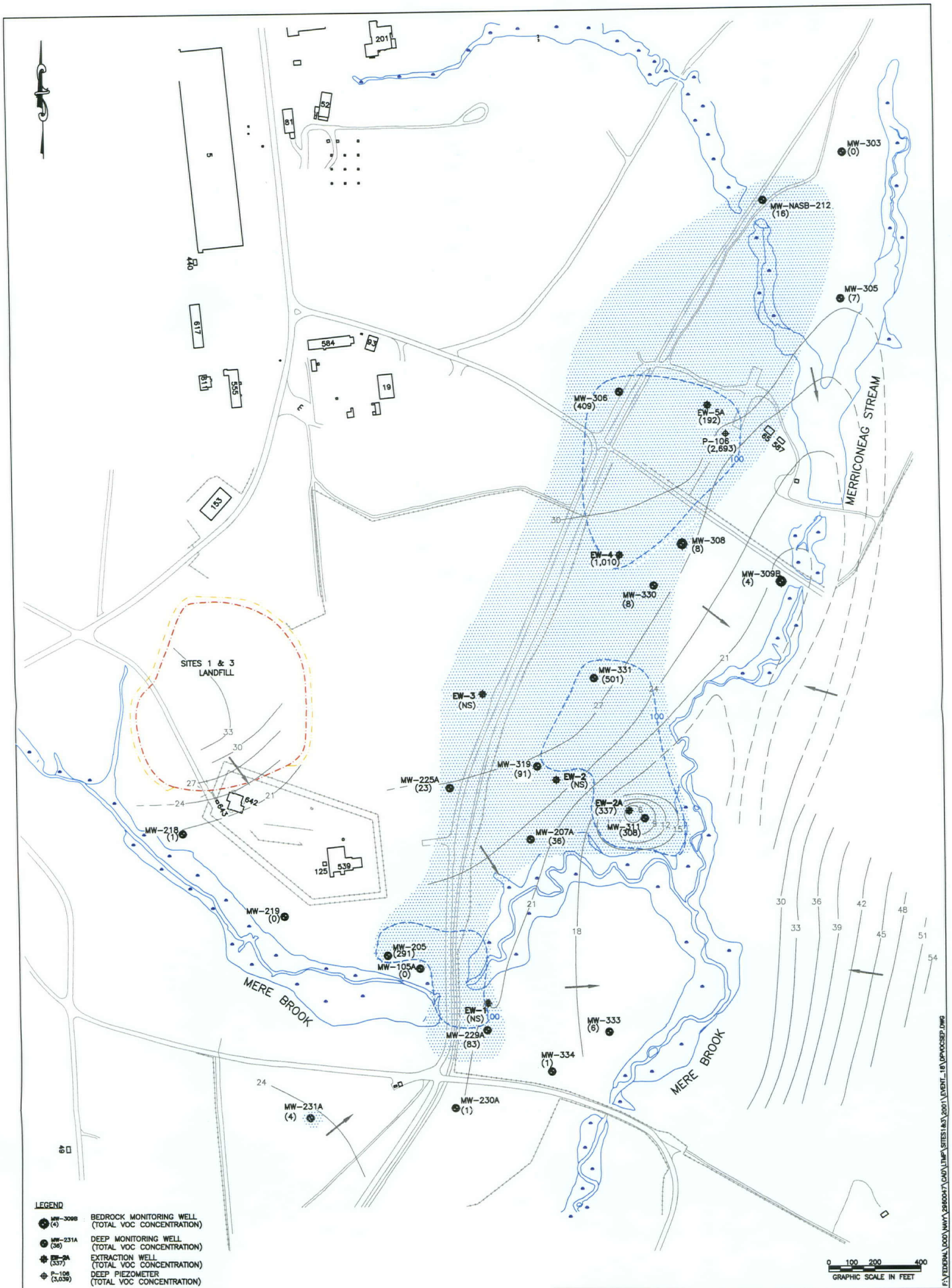
PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	SHVOCSEP.DWG
DRAWING NUMBER	–
SHEET NUMBER	–



LEGEND

- MW-309B (4) — BEDROCK MONITORING WELL (TOTAL VOC CONCENTRATION)
- MW-231A (36) — DEEP MONITORING WELL (TOTAL VOC CONCENTRATION)
- EW-2A (337) — EXTRACTION WELL (TOTAL VOC CONCENTRATION)
- P-106 (3,039) — DEEP PIEZOMETER (TOTAL VOC CONCENTRATION)
- FENCE
- APPROXIMATE LIMITS OF SLURRY WALL
- APPROXIMATE LIMITS OF SITES 1 & 3
- INFERRED AREA ABOVE STATE MEG/FEDERAL MCL CONCENTRATION
- 100 — 100 ug/L TOTAL VOC CONTOUR (DASHED WHERE INFERRED)
- NS — NOT SAMPLED
- 27 — GROUND-WATER CONTOUR (FT MSL) FOR 13 – 18 APRIL 2001FROM FIGURE 6 (DASHED WHERE INFERRED)
- INFERRED GROUND-WATER FLOW DIRECTION

NOTE:

1. SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.
2. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
3. HIGHEST VALUE SHOWN AT DUPLICATE SAMPLE LOCATIONS.

SITES 1 AND 3 AND EASTERN PLUME

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 10

INTERPRETED TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATION CONTOUR MAP DEEP WELLS, MONITORING EVENT 18

DATE	9 JULY 2001
DESIGNED BY	SAP
DRAWN BY	SAP
CHECKED BY	SYC
PROJECT MANAGER	AE

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PROJECT NUMBER	29600.47
SCALE	1"=400'
FILE NAME	dpvocsep.DWG
DRAWING NUMBER	–
SHEET NUMBER	–

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITES 1 AND 3

Sample Type/Location	Monitoring Frequency	Slurry Wall	Sample Parameters			Monitoring Event 18	
			TCL VOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Shallow Monitoring Wells							
MW-201R	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-202A	Bi-Annual	Outside	X	X	X	X	X
MW-202B	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-203	Bi-Annual	Outside	X	X	X	X	X
MW-204	Bi-Annual	Outside	X	X	X	X	X
MW-210B	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-211B	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-215R	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-217B	Bi-Annual	Inside	X[b]	X[b]	X	X	X
MW-234R	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-240	Bi-Annual	Outside	X	X	X	X	X
MW-2101	Bi-Annual	Outside	X	X	X	X	X
Deep Monitoring Wells							
MW-216A	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-217A	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-218	Bi-Annual	Outside	X	X	X	X	X
MW-219	Bi-Annual	Outside	X	X	X	X	X
MW-220	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-232A	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-233R	Bi-Annual	Inside	NR	NR	NR	X	NR
Bedrock Wells							
MW-210A	Bi-Annual	Outside	NR	NR	NR	X	NR
MW-210R	Bi-Annual	Inside	NR	NR	NR	X	NR
MW-211A	Bi-Annual	Inside	NR	NR	NR	X	NR
Extraction Wells							
EW-6	Bi-Annual	Inside	NR	NR	NR	X	NR
EW-7	Bi-Annual	Inside	NR	NR	NR	X	NR
Shallow EP-Series Piezometers							
EP-16	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-17	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-18	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-19	Bi-Annual	Inside	NR	NR	NR	X	NR
EP-20	Bi-Annual	Inside	NR	NR	NR	X	NR

(a) Determination of field parameters in accordance with U.S. Environmental Protection Agency (EPA) 600/4-79/020 using the following methods: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 120.1), and turbidity (Method 180.1); optional field parameters, including dissolved oxygen (Method 360.1) and Eh, were also recorded. Includes water level measurement.

(b) Sample collected utilizing an aqueous diffusion sampler. The sample was analyzed for VOCs only.

NOTE: TCL = Target Compound List.
VOC = Volatile organic compounds (EPA SW846).
TAL = Target Analyte List.
NR = Not required.

Sample Type/Location	Monitoring Frequency	Sample Parameters			Monitoring Event 18	
		TCL VOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Leachate Station Seep						
SEEP-1	Bi-Annual	X	X	X	X[c]	X
SEEP-3	Bi-Annual	X	X	X	X[c]	Dry
SEEP-4	Bi-Annual	X	X	X	X[c]	X
SEEP-5	Bi-Annual	X	X	X	X[c]	X
SEEP-9	Bi-Annual	X	X	X	X[c]	X
Leachate Station Sediment						
LT-1	Bi-Annual	X	X	NR	NR	X
LT-2	Bi-Annual	X	X	NR	NR	X
LT-3	Bi-Annual	X	X	NR	NR	X
LT-4	Bi-Annual	X	X	NR	NR	X
LT-5	Bi-Annual	X	X	NR	NR	X
LT-9	Bi-Annual	X	X	NR	NR	X
Surface Water						
SW-4	Bi-Annual	X	X	X	X[c]	X
SW-7	Bi-Annual	X	X	X	X[c]	X
SW-8	Bi-Annual	X	X	X	X[c]	X
SW-9	Bi-Annual	X	X	X	X[c]	X
SW-15[d]	Bi-Annual	NR	X	X	X[c]	X
SW-16[d]	Bi-Annual	NR	X	X	X[c]	X
Sediment						
SED-9	Annual	NR	X	NR	NR	NR
SED-15[e]	Annual	NR	X	NR	NR	NR
SED-16[e]	Annual	NR	X	NR	NR	NR
SED-17	Annual	NR	X	NR	NR	NR
SED-18	Annual	NR	X	NR	NR	NR
SED-19	Annual	NR	X	NR	NR	NR

(c) Field measurement of water quality indicator parameters only.
(d) Surface water locations SW-15 and SW-16 are currently sampled as part of the Naval Air Station (NAS) Brunswick sampling program. These samples are only collected in September, and the analytical results are summarized in the September monitoring event report. NAS Brunswick does not measure field parameters; however, if NAS Brunswick discontinues collection of these samples, EA will begin collecting them as per the final Long-Term Monitoring Plan.
(e) Sediment locations SED-15 and SED-16 are currently sampled as part of the NAS Brunswick sampling program. These samples are only collected in September, and the analytical results are summarized in the September monitoring event report. NAS Brunswick does not measure field parameters; however, if NAS Brunswick discontinues collection of these samples, EA will begin collecting them as per the final Long-Term Monitoring Plan.

TABLE 2 SUMMARY OF LONG-TERM MONITORING PROGRAM AT EASTERN PLUME

Sample Type/Location	Monitoring Frequency	Well Location	Sample Parameters		Monitoring Event 18	
			TCL VOC	Field Parameters[a]	Gauged	Sampled
Shallow Monitoring Wells						
MW-105 B	Bi-Annual	Perimeter	NR	NR	X	NR
MW-106	Bi-Annual	NA	NR	NR	X	NR
MW-206 B	Bi-Annual	NA	NR	NR	X	NR
MW-207 B	Bi-Annual	NA	NR	NR	X	NR
MW-209	Bi-Annual	NA	NR	NR	X	NR
MW-222	Bi-Annual	NA	NR	NR	X	NR
MW-223	Bi-Annual	NA	NR	NR	X	NR
MW-224	Bi-Annual	Perimeter	X	X[b]	X	X
MW-225 B	Bi-Annual	NA	NR	NR	X	NR
MW-229 B	Bi-Annual	NA	NR	NR	X	NR
MW-231B	Bi-Annual	Sentinel	X	X[c]	X	X
MW-307	Bi-Annual	NA	NR	NR	X	NR
MW-313	Bi-Annual	Sentinel	X	X[c]	X	X
MW-318	Bi-Annual	Sentinel	X	X[c]	X	X
MW-332	Bi-Annual	Interior Plume	X	X[b]	X	X
MW-1104	Bi-Annual	Perimeter	X	X[c]	X	X
Deep Monitoring Wells						
MW-105 A	Bi-Annual	Perimeter	X	X[b]	X	X
MW-205	Bi-Annual	Interior Plume	X	X[b]	X	X
MW-206 A	Bi-Annual	NA	NR	NR	X	NR
MW-207 A	Bi-Annual	Interior Plume	X	X	X	X
MW-208	Bi-Annual	NA	NR	NR	X	NR
MW-225 A	Bi-Annual	Perimeter	X	X[c]	X	X
MW-229 A	Bi-Annual	Perimeter	X	X[b]	X	X
MW-230 A	Bi-Annual	Sentinel	X	X[c]	X	X
MW-231A	Bi-Annual	Sentinel	X	X[c]	X	X
MW-303	Bi-Annual	Sentinel	X	X[c]	X	X
MW-305	Bi-Annual	Sentinel	X	X[c]	X	X
MW-306	Bi-Annual	Perimeter	X	X[b]	X	X
MW-310	Bi-Annual	NA	NR	NR	X	NR
MW-311	Bi-Annual	Interior Plume	X	X[b]	X	X

(a) Determination of field parameters in accordance with U.S. Environmental Protection Agency 600/4-79/020 using the following methods: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 120.1), and turbidity (Method 180.1); optional field parameters, including dissolved oxygen (Method 360.1) and Eh, were also recorded. Includes water level measurement.
(b) The ground-water sample was collected utilizing the diffusion sampler method.
(c) The ground-water sample was collected utilizing the diffusion sampler and low-flow sampling methods.

NOTE:
TCL = Target Compound List.
VOC = Volatile organic compounds.
NR = Sampling is not required as per draft final Long-Term Monitoring Plan (EA 1999).
NA = Not applicable. Well is not sampled, therefore, location is not indicated.
Perimeter Well = Located at the edge of the plume to monitor concentrations of plume boundary.
Sentinel Well = Outside area of known contamination to be used to warn of plume migration.
Interior Plume Well = Within area of known contamination to monitor plume migration.

Sample Type/Location	Monitoring Frequency	Well Location	Sample Parameters		Monitoring Event 18	
			TCL VOC	Field Parameters[a]	Gauged	Sampled
Deep Monitoring Wells (Continued)						
MW-312	Bi-Annual	NA	NR	NR	X	NR
MW-319	Bi-Annual	Interior Plume	X	X[b]	X	X
MW-330	Bi-Annual	Perimeter	X	X[c]	X	X
MW-331	Bi-Annual	Interior Plume	X	X[b]	X	X
MW-333	Bi-Annual	Sentinel	X	X[c]	X	X
MW-334	Bi-Annual	Sentinel	X	X[c]	X	X
MW-NASB-212	Bi-Annual	Perimeter	X	X[b]	X	X
Bedrock Monitoring Wells						
MW-308	Bi-Annual	Sentinel	X	X[c]	X	X
MW-309 A	Bi-Annual	NA	NR	NR	X	NR
MW-309 B	Bi-Annual	Sentinel	X	X[c]	X	X
MW-316A	Bi-Annual	NA	NR	NR	X	NR
MW-316B	Bi-Annual	NA	NR	NR	X	NR
MW-317A	Bi-Annual	NA	NR	NR	X	NR
MW-317B	Bi-Annual	NA	NR	NR	X	NR
Shallow P-Series Piezometers						
P-103	Bi-Annual	NA	NR	NR	X	NR
P-111	Bi-Annual	Perimeter	X	X	X	X
P-121	Bi-Annual	NA	NR	NR	X	NR
P-132	Bi-Annual	Sentinel	X	X[c]	X	X
Deep P-Series Piezometers						
P-105	Bi-Annual	NA	NR	NR	X	NR
P-106	Bi-Annual	Interior Plume	X	X	X	X
Extraction Wells						
EW-1	Bi-Annual	Interior Plume	X	X	X	Well offline
EW-2A	Bi-Annual	Interior Plume	X	X	X	X
EW-4	Bi-Annual	Interior Plume	X	X	X	X
EW-5A	Bi-Annual	Interior Plume	X	X	X	X
Deep EP-Series Piezometers						
EP-1	Bi-Annual	NA	NR	NR	X	NR
EP-2	Bi-Annual	NA	NR	NR	X	NR
EP-3	Bi-Annual	NA	NR	NR	X	NR
EP-4	Bi-Annual	NA	NR	NR	X	NR
EP-5	Bi-Annual	NA	NR	NR	X	NR
EP-6	Bi-Annual	NA	NR	NR	X	NR
EP-7	Bi-Annual	NA	NR	NR	X	NR
EP-9	Bi-Annual	NA	NR	NR	X	NR
EP-10	Bi-Annual	NA	NR	NR	X	NR
EP-11	Bi-Annual	NA	NR	NR	X	NR
EP-12	Bi-Annual	NA	NR	NR	X	NR
EP-13	Bi-Annual	NA	NR	NR	X	NR
EP-14	Bi-Annual	NA	NR	NR	X	NR
EP-15	Bi-Annual	NA	NR	NR	X	NR

Sample Type/Location	Monitoring Frequency	Well Location	Sample Parameters		Monitoring Event 18	
			TCL VOC	Field Parameters[a]	Gauged	Sampled
Surface Water						
SW-10	Bi-Annual	NA	X	X	X[c]	X
SW-11	Bi-Annual	NA	X	X	X[c]	X
SW-12	Bi-Annual	NA	X	X	X[c]	X
SW-13	Bi-Annual	NA	X	X	X[c]	X
SW-14	Bi-Annual	NA	X	X	X[c]	X
GP-1	Bi-Annual	NA	NR	NR	X	NR
GP-2	Bi-Annual	NA	NR	NR	X	NR
GP-3	Bi-Annual	NA	NR	NR	X	NR
GP-4	Bi-Annual	NA	NR	NR	X	NR
GP-5	Bi-Annual	NA	NR	NR	X	NR
GP-6	Bi-Annual	NA	NR	NR	X	NR
Seep						
SEEP-10	Bi-Annual		X	X	X[d]	X
SEEP-11	Bi-Annual		X	X	X[d]	X

(d) Measurement of water quality indicator parameters only.

TABLE 3 MONITORING WELL GAUGING SUMMARY FOR 19 APRIL 2001 SITES 1 AND 3

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Slurry Wall	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Shallow Monitoring Wells					
MW-201R	58.88	49.08	Outside	10.94	47.94
MW-202A	52.40	31.09	Outside	18.78	33.62
MW-203	52.75	42.04	Outside	31.27	21.48
MW-204	50.50	37.18	Outside	29.54	20.96
MW-210B	54.72	40.50	Outside	29.41	25.31
MW-211B	65.44	36.50	Inside	32.48	32.96
MW-215R	62.26	59.00	Inside	30.47	31.79
MW-217B	61.25	32.90	Inside	28.60	32.65
MW-234R	68.55	59.52	Inside	36.58	31.97
MW-240	52.21	42.60	Outside	29.70	22.51
MW-2101	61.05	30.00	Outside	11.34	49.71
Deep Monitoring Wells					
MW-216A	71.17	47.71	Inside	38.82	32.35
MW-217A	61.78	47.40	Inside	30.28	31.50
MW-218	54.16	53.54	Outside	33.65	20.51
MW-219	51.87	71.82	Outside	29.98	21.89
MW-220	47.20	51.50	Outside	26.54	20.66
MW-232A	71.18	54.74	Inside	39.10	32.08
MW-233R	63.94	38.71	Inside	32.02	31.92
Bedrock Monitoring Wells					
MW-210A	52.17	106.32	Outside	19.15	33.02
MW-210R	55.90	112.35	Inside	21.89	34.01
MW-211A	65.59	142.76	Inside	24.42	41.17
Extraction Wells					
EW-6	57.74	39.05	Inside	21.72	36.02
EW-7	51.13	38.90	Inside	26.45	24.68
Shallow EP Series Piezometers					
EP-16	58.92	58.77	Inside	33.81	25.11
EP-17	69.73	42.85	Inside	37.53	32.20
EP-18	68.58	38.10	Inside	36.41	32.17
EP-19	68.22	47.30	Inside	36.19	32.03
EP-20	69.55	47.25	Inside	37.25	32.30

NOTE: MSL = Mean sea level.

TABLE 4 MONITORING WELL GAUGING SUMMARY FOR 13-18 APRIL 2001 EASTERN PLUME

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Shallow Monitoring Wells				
MW-105B	24.55	21.91	5.99	18.56
MW-106	51.26	37.27	23.56	27.70
MW-206B	42.77	27.17	19.49	23.28
MW-207B	22.90	9.21	2.79	20.11
MW-209	54.84	32.38	26.55	28.29
MW-222	57.43	45.34	28.64	28.79
MW-223	53.71	42.61	25.67	28.04
MW-224	57.63	46.01	28.15	29.48
MW-225B	46.25	42.00	20.62	25.63
MW-229B	30.08	33.14	14.32	15.76
MW-231B	46.31	37.99	25.60	20.71
MW-307	62.70	22.21	16.82	45.88
MW-313	21.39	37.47	7.71	13.68
MW-318	24.28	25.14	4.34	19.94
MW-332	25.33	21.03	8.31	17.02
MW-1104	60.09	27.55	10.98	49.11
Deep Monitoring Wells				
MW-105A	24.19	47.75	2.34	21.85
MW-205	45.99	79.00	23.33	22.66
MW-206A	43.02	74.36	18.72	24.30
MW-207A	24.06	75.55	Well Broken	Well Broken
MW-208	49.40	102.8	21.52	27.88
MW-225A	45.95	76.03	19.52	26.43
MW-229A	33.83	64.97	13.22	20.61
MW-230A	36.32	81.49	15.15	21.17
MW-231A	45.41	61.19	21.08	24.33
MW-303	44.28	72.75	12.40	31.88
MW-305	43.09	53.51	12.81	30.28
MW-306	52.12	56.98	19.92	32.20
MW-310	53.39	73.25	28.08	25.31
MW-311	21.48	56.25	15.10	6.38
MW-312	35.97	71.15	11.39	24.58
MW-319	40.16	72.60	13.47	26.69
MW-330	35.71	36.36	5.73	29.98
MW-331	30.54	56.23	2.61	27.93
MW-333	27.25	42.85	10.60	16.65
MW-334	30.93	47.80	11.16	19.77
MW-NASB-212	41.64	64.29	9.52	32.12
Bedrock Monitoring Wells				
MW-308	37.70	73.25	5.54	32.16
MW-309A	22.84	72.71	+2.31	25.15
MW-309B	22.32	59.25	2.63	19.69
MW-316A	53.71	103.10	21.98	31.73
MW-316B	54.40	57.85	12.89	41.51
MW-317A	71.35	120.79	15.84	55.51
MW-317B	70.10	96.95	14.63	55.47

NOTE: MSL = Mean sea level.

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of well riser)	Depth to Water (ft below top of well riser)	Ground-Water Elevation (ft MSL)
Shallow P-Series Piezometers				
P-103	60.35	28.75	27.43	32.92
P-111	31.48	9.98	5.97	25.51
P-121	50.78	17.35	5.78	45.00
P-132	42.95	32.46	16.57	26.38
Deep P-Series Piezometers				
P-105	42.08	70.35	10.44	31.64
P-106	38.83	72.40	11.20	27.63
Extraction Wells				
EW-1	25.34	99.66	9.30	16.04
EW-2A	22.27	66.00	38.75	-16.48
EW-4	37.13	69.37	13.81	23.32
EW-5A	37.63	82.00	32.31	5.32
Deep EP-Series Piezometers				
EP-1	31.67	101.22	9.25	22.42
EP-2	29.74	99.00	7.48	22.26
EP-3	27.91	89.21	5.46	22.45
EP-4	32.59	91.11	7.11	25.48
EP-5	34.61	79.85	8.24	26.37
EP-6	40.14	83.51	13.91	26.23
EP-7	48.49	70.20	20.51	27.98
EP-8	47.31	80.38	19.21	28.10
EP-9	37.84	62.46	9.26	28.58
EP-10	37.78	57.73	9.13	28.65
EP-11	41.59	65.03	12.03	29.56
EP-12	49.38	69.61	19.60	29.78
EP-13	38.96	70.93	7.03	31.93
EP-14	43.46	80.05	11.42	32.04
EP-15	45.37	82.68	13.75	31.62

Surface Water Gauging Stations

Well Designation	Gauging Point Elevation (ft MSL)	Depth to Water (ft below gauging point)	Surface Water Elevation (ft MSL)
GP-1A	25.39	+2.70	28.09
GP-2A	23.92	+2.20	26.12
GP-3A	25.26	+0.70	25.96
GP-4	18.39	2.60	15.79
GP-5A	11.47	+4.50	15.97
GP-6	15.22	9.95	5.27

TABLE 5 GROUND-WATER EXTRACTION FLOW RATE AND RUN TIME SUMMARY, 1 OCTOBER 2000 – 30 APRIL 2001 GROUND-WATER EXTRACTION AND TREATMENT SYSTEM (BUILDING 50)

	DATE															
	10/1/00	10/2/00	10/3/00	10/4/00	10/5/00	10/6/00	10/7/00	10/8/00	10/9/00	10/10/00	10/11/00	10/12/00	10/13/00	10/14/00	10/15/00	10/16/00
EW-1																
Flow rate (gpm)	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A																
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-4																
Flow rate (gpm)	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5																
Flow rate (gpm)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

	DATE														
	10/17/00	10/18/00	10/19/00	10/20/00	10/21/00	10/22/00	10/23/00	10/24/00	10/25/00	10/26/00	10/27/00	10/28/00	10/29/00	10/30/00	10/31/00
EW-1															
Flow rate (gpm)	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Run time (hours)	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24
EW-4															
Flow rate (gpm)	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Run time (hours)	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24
EW-5															
Flow rate (gpm)	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Run time (hours)	24	24	20.5	24	24	24	24	24	24	24	24	24	24	24	24

	DATE														
	11/1/00	11/2/00	11/3/00	11/4/00	11/5/00	11/6/00	11/7/00	11/8/00	11/9/00	11/10/00	11/11/00	11/12/00	11/13/00	11/14/00	11/15/00
EW-1															
Flow rate (gpm)	3	3	3	3	3	3	0	0	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	14	0	0	11	24	23	24	24	24	24
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	0	0	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	14	0	0	11	24	23	24	24	24	24
EW-4															
Flow rate (gpm)	16	16	16	16	16	16	0	0	16	16	16	16	16	16	16
Run time (hours)	24	24	24	24	24	14	0	0	11	24	23	24	24	24	24
EW-5															
Flow rate (gpm)	6	6	6	6	6	6	0	0	6	6	6	6	6	6	6
Run time (hours)	24	24	24	24	24	14	0	0	11	24	23	24	24	24	24

	DATE														
	11/16/00	11/17/00	11/18/00	11/19/00	11/20/00	11/21/00	11/22/00	11/23/00	11/24/00	11/25/00	11/26/00	11/27/00	11/28/00	11/29/00	11/30/00
EW-1															
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	17	24	23	24	24	24	24	24	24	24	24	24	20
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	17	24	23	24	24	24	24	24	24	24	24	24	20
EW-4															
Flow rate (gpm)	16	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	17	24	23	24	24	24	24	24	24	24	24	24	20
EW-5															
Flow rate (gpm)	6	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Run time (hours)	24	24	17	24	23	24	24	24	24	24	24	24	24	24	20

	DATE															
	12/1/00	12/2/00	12/3/00	12/4/00	12/5/00	12/6/00	12/7/00	12/8/00	12/9/00	12/10/00	12/11/00	12/12/00	12/13/00	12/14/00	12/15/00	12/16/00
EW-1																
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	23.75	24	24	24	24	24	24	24	24
EW-2A																
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	23.75	24	24	24	24	24	24	24	24
EW-4																
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	23.75	24	24	24	24	24	24	24	24
EW-5																
Flow rate (gpm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Run time (hours)	24	24	24	24	24	24	24	23.75	24	24	24	24	24	24	24	24

	DATE														
	12/17/00	12/18/00	12/19/00	12/20/00	12/21/00	12/22/00	12/23/00	12/24/00	12/25/00	12/26/00	12/27/00	12/28/00	12/29/00	12/30/00	12/31/00
EW-1															
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-4															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5															
Flow rate (gpm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

	DATE															
	1/1/01	1/2/01	1/3/01	1/4/01	1/5/01	1/6/01	1/7/01	1/8/01	1/9/01	1/10/01	1/11/01	1/12/01	1/13/01	1/14/01	1/15/01	1/16/01
EW-1																
Flow rate (gpm)	3	3	3	3	3	3	3	3	0	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	15	0	12.5	23.75	24	24	21	24	21.25
EW-2A																
Flow rate (gpm)	20	20	20	20	20	20	20	20	0	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	15	0	12.5	23.75	24	24	21	24	21.25
EW-4																
Flow rate (gpm)	18	18	18	18	18	18	18	18	0	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	15	0	12.5	23.75	24	24	21	24	21.75
EW-5																
Flow rate (gpm)	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0
Run time (hours)	24	24	24	24	12	0	0	0	0	0	0	0	0	0	0	0
EW-5A																
Flow rate (gpm)	0	0	0	0	0	0	0	0	0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Run time (hours)	0	0	0	0	0	0	0	0	0	12.5	23.75	24	23	21	19	21.75

	DATE														
	1/17/01	1/18/01	1/19/01	1/20/01	1/21/01	1/22/01	1/23/01	1/24/01	1/25/01	1/26/01	1/27/01	1/28/01	1/29/01	1/30/01	1/31/01
EW-1															
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	22.5	24
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	22.5	24
EW-4															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	22.5	24
EW-5															
Flow rate (gpm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Run time (hours)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EW-5A															
Flow rate (gpm)	4.5	2.5	2.5	2.5	0	2.5	2.5	4	4	4	4	4	4	4	4
Run time (hours)	19.5	18	19	13	0	14	13.5	24	24	24	24	24	24	22.5	24

NOTE: EW-5 was taken out of service on 8 January 2001 and was decommissioned on 17 January 2001. EW-5A was brought online on 10 January 2001.

	DATE														
	2/1/01	2/2/01	2/3/01	2/4/01	2/5/01	2/6/01	2/7/01	2/8/01	2/9/01	2/10/01	2/11/01	2/12/01	2/13/01	2/14/01	2/15/01
EW-1															
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	19.5	16	20.5	19.5	17	24	24	24	24	24
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	19.5	16	20.5	19.5	16	24	24	24	24	24
EW-4															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	19.5	16	20.5	19.5	16	24	24	24	24	24
EW-5A															
Flow rate (gpm)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	6	6	6
Run time (hours)	24	24	24	24	24	19.5	16	20.5	19.5	16	24	24	24	24	24

	DATE												
	2/16/01	2/17/01	2/18/01	2/19/01	2/20/01	2/21/01	2/22/01	2/23/01	2/24/01	2/25/01	2/26/01	2/27/01	2/28/01
EW-1													
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A													
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-4													
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5A													
Flow rate (gpm)	7	7	7	8	9	9	9	9	9	9	10	8	8
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24

	DATE															
	3/1/01	3/2/01	3/3/01	3/4/01	3/5/01	3/6/01	3/7/01	3/8/01	3/9/01	3/10/01	3/11/01	3/12/01	3/13/01	3/14/01	3/15/01	3/16/01
EW-1																
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A																
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-4																
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5A																
Flow rate (gpm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

	DATE														
	3/17/01	3/18/01	3/19/01	3/20/01	3/21/01	3/22/01	3/23/01	3/24/01	3/25/01	3/26/01	3/27/01	3/28/01	3/29/01	3/30/01	3/31/01
EW-1															
Flow rate (gpm)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-4															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5A															
Flow rate (gpm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

	DATE														
	4/1/01	4/2/01	4/3/01	4/4/01	4/5/01	4/6/01	4/7/01	4/8/01	4/9/01	4/10/01	4/11/01	4/12/01	4/13/01	4/14/01	4/15/01
EW-1															
Flow rate (gpm)	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-4															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
EW-5A															
Flow rate (gpm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

	DATE														
	4/16/01	4/17/01	4/18/01	4/19/01	4/20/01	4/21/01	4/22/01	4/23/01	4/24/01	4/25/01	4/26/01	4/27/01	4/28/01	4/29/01	4/30/01
EW-1															
Flow rate (gpm)	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0
Run time (hours)	24	24	24	24	24	24	24	13	0	0	0	0	0	0	0
EW-2A															
Flow rate (gpm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24
EW-4															
Flow rate (gpm)	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24
EW-5A															
Flow rate (gpm)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Run time (hours)	24	24	24	24	24	24	24	24	24	24	24	20	24	24	24

NOTE: EW-1 was not operational from 24 to 30 April 2001 due to pump replacement and restricted access to the Weapons Compound.

TABLE 6 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 24 APRIL 2001 AT SITES 1 AND 3

Well Designation	Location Relative to Slurry	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Shallow Monitoring Wells							
MW-202A	Outside	5.65	11.51	442	7.4	0	229
MW-203	Outside	5.92	12.99	875	6.5	8	214
MW-204	Outside	6.21	9.87	30	11.4	3	-167
MW-217B[a]	Inside	6.98	9.52	850	0.6	NA	209
MW-240	Outside	5.82	14.01	100	11.0	3	-117
MW-2101	Outside	5.54	13.64	243	4.8	11	-149
Deep Monitoring Wells							
MW-218	Outside	7.13	13.40	1,110	0.7	4	-100
MW-219	Outside	6.20	11.81	106	7.7	22	-174

(a) Sample collected utilizing a aqueous diffusion sampler due to insufficient water.

NOTE: NTU = Nephelometric turbidity unit.
NA = Not available.
Water quality parameters were collected using a YSI-600XL water quality meter; however, the YSI-600XL water quality meter does not record turbidity measurements. Turbidity was measured with a Hach kit (or equivalent instrument).

TABLE 7 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN LOW-FLOW GROUND-WATER SAMPLES COLLECTED FROM 30 APRIL TO 3 MAY 2001 AT EASTERN PLUME

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Shallow Monitoring Wells						
MW-231B	6.37	11.07	72	10.9	58	198
MW-313	7.67	11.81	248	0.7	160	-7
MW-318	6.66	9.56	79	5.2	24	143
MW-1104	5.78	10.82	182	3.8	74	35
Deep Monitoring Wells						
MW-207A	7.11	9.11	203	2.0	21	-6
MW-225A	6.21	10.56	128	7.3	132	-289
MW-230A	7.46	9.52	120	0.3	189	-344
MW-231A	6.54	9.86	61	9.3	22	196
MW-303	7.89	9.86	225	0.3	48	-36
MW-305	8.73	10.72	185	0.2	1,499	-299
MW-330	7.52	8.59	124	0.5	18	128
MW-333	7.77	12.59	199	0.4	112	-81
MW-334	8.11	12.33	168	0.2	426	-33
Bedrock Monitoring Wells						
MW-308	8.64	9.59	842	0.6	9	-162
MW-309B	8.29	9.19	268	0.8	106	110
Shallow P-Series Piezometers						
P-111	6.40	4.31	127	1.0	18	99
P-132	6.19	13.51	32	10.9	1,030	-280
Deep P-Series Piezometers						
P-106	6.84	9.09	142	4.0	19	181

NOTE: NTU = Nephelometric turbidity unit.

TABLE 8 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED AFTER AQUEOUS DIFFUSION GROUND-WATER SAMPLES COLLECTED FROM 30 APRIL TO 3 MAY 2001 AT EASTERN PLUME

Well Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Shallow Monitoring Wells						
MW-224	5.94	9.41	90	8.4	NA	-154
MW-231B	7.39	7.85	48	10.9	NA	214
MW-313	7.83	7.98	486	0.8	NA	1
MW-318	7.93	8.17	69	1.9	NA	-1
MW-332	6.56	5.53	83	10.5	NA	-206
MW-1104	6.26	8.39	75	9.4	NA	-89
Deep Monitoring Wells						
MW-105A	6.97	8.09	62	9.8	NA	-182
MW-205	8.77	8.28	152	0.2	NA	223
MW-225A	5.83	7.47	141	5.8	NA	-212
MW-229A	7.64	8.09	105	8.3	NA	-157
MW-230A	6.89	8.06	91	1.1	NA	245
MW-231A	8.05	7.52	40	9.7	NA	110
MW-303	7.33	7.84	240	0.9	NA	-272
MW-305	8.63	8.00	127	1.0	NA	-271
MW-306	6.13	7.62	112	6.5	NA	-227
MW-311	7.17	7.94	163	0.6	NA	-302
MW-319	6.77	8.17	220	3.0	NA	-60
MW-330	8.19	8.48	63	0.8	NA	150
MW-331	Water quality parameters not collected – unable to fit YSI in well					
MW-333	7.91	8.05	458	1.0	NA	-190
MW-334	7.48	8.72	167	0.5	NA	244
MW-NASB-212	7.07	8.09	326	1.2	NA	-125
Bedrock Monitoring Wells						
MW-308	8.71	8.50	574	0.2	NA	27
MW-309B	8.47	8.62	183	0.7	NA	74
Shallow P-Series Piezometers						
P-132	7.94	7.65	30	10.5	NA	-268

NOTE: NTU = Nephelometric turbidity unit.
NA = Not available.
Water quality parameters were collected using a YSI-600XL water quality meter. The YSI-600XL does not record turbidity measurements. Turbidity was measured with a Hach kit (or equivalent instrument).

TABLE 9 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN WATER SAMPLES COLLECTED FROM EXTRACTION WELLS AND THE TREATMENT PLANT ON 30 APRIL 2001 AT EASTERN PLUME

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Extraction Wells						
EW-1	Well offline – no data collected					
EW-2A	7.07	11.36	313	8.9	111	6
EW-4	6.70	11.87	117	6.7	14	38
EW-5A	7.34	11.43	103	8.3	47	8
Ground-Water Treatment Plant						
Eastern Plume Raw Influent	6.60	11.17	218	5.8	15	201
Combined Effluent	7.09	12.04	192	8.7	0	174

NOTE: NTU = Nephelometric turbidity unit.

TABLE 10 SUMMARY OF LOW-FLOW AND AQUEOUS DIFFUSION SAMPLERS FOR THE EASTERN PLUME VOLATILE ORGANIC ANALYSIS SAMPLES

Pilot Test Group No.	Well Identification (Well Depth)	Sample Method	
		Low-Flow Method	Aqueous Diffusion Sampler (No. of Samplers/Placement in Screen)
1	MW-105A (Deep)	No	1/deep
	MW-205A (Deep)	No	1/deep
	MW-224 (Shallow)	No	1/mid-point
	MW-NASB-212 (Deep)	No	1/shallow
	MW-229A (Deep)	No	1/mid-point
	MW-306 (Deep)	No	1/deep
	MW-311 (Deep)	No	1/deep
	MW-319 (Deep)	No	1/deep
	MW-331 (Deep)	No	1/mid-point
	MW-332 (Shallow)	No	1/mid-point
2	MW-1104 (Shallow)	Yes	3/shallow, mid-point, and deep
	MW-225A (Deep)	Yes	3/shallow, mid-point, and deep
	MW-230A (Deep)	Yes	3/shallow, mid-point, and deep
	MW-231A (Deep)	Yes	3/shallow, mid-point, and deep
	MW-231B (Shallow)	Yes	3/shallow, mid-point, and deep
	MW-303 (Deep)	Yes	3/shallow, mid-point, and deep
	MW-305 (Deep)	Yes	3/shallow, mid-point, and deep
	MW-308 (Bedrock)	Yes	3/shallow, mid-point, and deep
	MW-309B (Bedrock)	Yes	3/shallow, mid-point, and deep
	MW-313 (Shallow)	Yes	3/shallow, mid-point, and deep
	MW-318 (Deep)	Yes	3/shallow, mid-point, and deep
	MW-330 (Deep)	Yes	3/shallow, mid-point, and deep
	MW-333 (Deep)	Yes	3/shallow, mid-point, and deep
	MW-334 (Shallow)	Yes	3/shallow, mid-point, and deep
	P-132 (Shallow)	Yes	3/shallow, mid-point, and deep

NOTE: Aqueous diffusion sampler installation intervals are referred to as shallow (1-3 ft below top of screen), mid-point (4-6 ft below top of screen), and deep (7-9 ft below top of screen).

TABLE 11 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND SEEP SAMPLES COLLECTED ON 26 APRIL 2001 AT SITES 1 AND 3

Sample Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-4	7.06	12.05	126	3.6	12	334
SW-7	6.98	12.02	126	3.3	25	370
SW-8	6.84	12.90	126	3.6	91	332
SW-9	6.98	12.97	126	6.2	115	270
SW-15[a]						
SW-16[a]						
Seep						
SEEP-1	6.41	11.24	463	2.3	3	301
SEEP-3			Seep dry – no data collected			
SEEP-4	6.79	6.96	479	4.4	5	310
SEEP-5	6.52	19.24	276	3.5	33	210
SEEP-9	6.44	20.93	230	7.1	72	248

(a) Locations sampled under Naval Air Station Brunswick's surface water program; water quality indicator parameters are not measured by Naval Air Station Brunswick personnel and, therefore, were not included on this table.

NOTE: NTU = Nephelometric turbidity unit.

TABLE 12 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER SAMPLES COLLECTED ON 26 APRIL 2001 AT EASTERN PLUME

Sample Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-10	6.86	9.33	115	6.0	2	296
SW-11	6.81	8.62	164	6.4	1	289
SW-12	7.43	8.28	102	6.9	3	366
SW-13	6.64	12.24	108	4.2	7	375
SW-14	6.86	10.97	142	5.3	7	300
Seep						
SEEP-10	6.19	5.88	72	4.72	0	304
SEEP-11	6.05	8.53	46	7.53	2	331

NOTE: NTU = Nephelometric turbidity unit.

TABLE 13 SUMMARY OF ANALYTICAL DATA QUALITY REVIEW

Sample Location	Findings of Laboratory Data Quality Review
GROUND WATER	
MW-202A	The results for 1,1,1-trichloroethane, tetrachloroethene, and trichloroethene are estimated based on precision criteria.
MW-217B	The result for acetone is false-positive due to trip blank contamination. The result for vinyl chloride is estimated based on precision criteria.
MW-313	The result for 1,2-dichlorobenzene is false-positive due to method blank contamination.
P-106	All volatile organic compounds, both non-detect and positive, are considered estimated based on accuracy criteria with the exception of 1,1,1-trichloroethane and trichloroethene.
P-106 DUP	The result for acetone is false-positive due to method blank contamination. All volatile organic compounds, both non-detect and positive, are considered estimated based on accuracy criteria with the exception of acetone (qualified for method blank contamination), 1,1,1-trichloroethane, 1,1-dichloroethene, and trichloroethene.
DIFFUSION SAMPLES	
MW-1104 (shallow)	The result for acetone is false-positive due to method blank contamination.
MW-1104 (mid)	The result for acetone is false-positive due to method blank contamination.
MW-1104 (deep)	The result for acetone is false-positive due to method blank contamination.
MW-205 (deep)	The result for carbon tetrachloride is estimated based on field precision criteria.
MW-224 (mid)	The result for acetone is false-positive due to field blank contamination.
MW-225A (shallow)	The result for 2-butanone is estimated based on accuracy criteria. The result for acetone is false-positive due to method blank contamination.
MW-225A (mid)	The result for 2-butanone is estimated based on accuracy criteria. The result for acetone is false-positive due to method blank contamination.
MW-225A (deep)	The result for acetone is false-positive due to field blank contamination.
MW-229A (mid)	The result for acetone is false-positive due to field blank contamination.
MW-229A DUP (mid)	The result for acetone is false-positive due to field blank contamination.
MW-230A (mid)	The result for acetone is false-positive due to field blank contamination.
MW-230A (deep)	The result for acetone is false-positive due to method blank contamination.
MW-231A (shallow)	The result for acetone is false-positive due to field blank contamination.
MW-231A (mid)	The result for acetone is false-positive due to field blank contamination.
MW-231A (deep)	The result for acetone is false-positive due to method blank contamination.
MW-231B (shallow)	The result for acetone is false-positive due to method blank contamination.
MW-231B (mid)	The result for acetone is false-positive due to field blank contamination.
MW-231B (deep)	The result for acetone is false-positive due to field blank contamination.
MW-303 (mid)	The result for acetone is false-positive due to field blank contamination.
MW-303 (deep)	The result for acetone is false-positive due to field blank contamination.
MW-305 (shallow)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on accuracy criteria.
MW-305 (mid)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on accuracy criteria.
MW-305 (deep)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on accuracy criteria.
MW-306 (deep)	The result for acetone is false-positive due to field blank contamination.
MW-308 (mid)	The result for acetone is false-positive due to method blank contamination.
MW-308 (deep)	The result for acetone is false-positive due to method blank contamination.
MW-309B (shallow)	The result for acetone is false-positive due to method blank contamination.
MW-309B (mid)	The result for acetone is false-positive due to method blank contamination.

Sample Location	Findings of Laboratory Data Quality Review
DIFFUSION SAMPLES (Continued)	
MW-309B (deep)	The result for acetone is false-positive due to method blank contamination.
MW-311 (deep)	The result for acetone is false-positive due to method blank contamination. The result for 1,1,1-trichloroethane is estimated based on field precision criteria. The result for methylene chloride is false-positive due to trip blank contamination. The result for 2-butanone is estimated based on accuracy criteria.
MW-311 DUP (deep)	The result for acetone is false-positive due to method blank contamination. The result for 1,1,1-trichloroethane is estimated based on field precision criteria. The result for methylene chloride is false-positive due to trip blank contamination. The result for 2-butanone is estimated based on accuracy criteria.
MW-313 (shallow)	The result for acetone is false-positive due to field blank contamination.
MW-313 (mid)	The result for acetone is false-positive due to field blank contamination.
MW-313 (deep)	The result for acetone is false-positive due to field blank contamination.
MW-318 (shallow)	The result for acetone is false-positive due to field blank contamination.
MW-318 (mid)	The result for acetone is false-positive due to field blank contamination.
MW-318 (deep)	The result for acetone is false-positive due to field blank contamination.
MW-319 (deep)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on precision criteria.
MW-330 (shallow)	The result for acetone is false-positive due to field blank contamination.
MW-331 (mid)	The result for acetone is false-positive due to method blank contamination. The result for benzene is false-positive due to field blank contamination. The result for methylene chloride is false-positive due to trip blank contamination. The result for 2-butanone is estimated based on precision criteria.
MW-331 DUP (mid)	The results for benzene and acetone are false-positive due to field blank contamination. The result for methylene chloride is false-positive due to trip blank contamination.
MW-332 (mid)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on precision criteria.
MW-332 DUP (mid)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on precision criteria.
MW-333 (shallow)	The result for acetone is false-positive due to field blank contamination.
MW-333 (mid)	The result for acetone is false-positive due to field blank contamination.
MW-333 (deep)	The result for acetone is false-positive due to field blank contamination.
MW-334 (shallow)	The result for acetone is false-positive due to field blank contamination.
MW-334 (mid)	The result for acetone is false-positive due to field blank contamination.
MW-334 (deep)	The result for acetone is false-positive due to field blank contamination.
MW-NASB-212 (shallow)	The result for 2-butanone is estimated based on precision criteria. The result for acetone is false-positive due to method blank contamination.
MW-NASB-212 DUP (shallow)	The result for 2-butanone is estimated based on precision criteria. The result for acetone is false-positive due to method blank contamination.
P-132 (shallow)	The result for acetone is false-positive due to method blank contamination.
P-132 (mid)	The result for acetone is false-positive due to method blank contamination. The result for 2-butanone is estimated based on precision criteria.
P-132 (deep)	The result for acetone is false-positive due to field blank contamination.

Sample Location	Findings of Laboratory Data Quality Review
SURFACE WATER	
SW-04 DUP	Results for acetone is false-positive due to rinsate blank contamination. The result for aluminum is estimated based on accuracy criteria.
SW-07	Results for acetone is false-positive due to rinsate blank contamination. The result for aluminum is estimated based on accuracy criteria.
SW-08	Results for acetone is false-positive due to rinsate blank contamination. The result for aluminum is estimated based on accuracy criteria.
SW-04	The result for aluminum is estimated based on accuracy criteria.
SW-09	The result for aluminum is estimated based on accuracy criteria.
SW-10	Results for acetone is false-positive due to method blank contamination.
SW-12	Results for acetone is false-positive due to method blank contamination.
SW-13	Results for acetone is false-positive due to method blank contamination.
SW-13 DUP	Results for acetone is false-positive due to method blank contamination.
SW-14	Results for acetone is false-positive due to method blank contamination.
LEACHATE STATION SEEP	
SEEP-01	The result for 1,2-dichlorobenzene is false-positive due to method blank contamination.
SEEP-04	The result for 1,2-dichlorobenzene is false-positive due to method blank contamination.
SEEP-05	The result for 1,2-dichlorobenzene is false-positive due to method blank contamination.
SEEP-09	The result for 1,2-dichlorobenzene is false-positive due to method blank contamination.
SEEP-09 DUP	The result for 1,2-dichlorobenzene is false-positive due to method blank contamination.
LEACHATE STATION SEDIMENT	
LT-01	The result for acetone is false-positive due to rinsate blank contamination. The result for methylene chloride is false-positive due to method blank contamination. The result for mercury is estimated due to precision criteria. The results for magnesium and manganese are estimated due to accuracy criteria.
LT-03	The result for acetone is estimated due to precision criteria. The result for mercury is estimated due to precision criteria. The results for magnesium and manganese are estimated due to accuracy criteria.
LT-4	The results for acetone and 1,4-dichlorobenzene are estimated due to precision criteria. The result for mercury is estimated due to precision criteria. The results for magnesium and manganese are estimated due to accuracy criteria.
LT-5	The result for acetone is estimated due to precision criteria. The result for mercury is estimated due to precision criteria. The results for magnesium and manganese are estimated due to accuracy criteria.
LT-9	The results for acetone and 1,4-dichlorobenzene are estimated due to precision criteria. The result for 1,2-dichlorobenzene is estimated due to field precision criteria. The result for mercury is estimated due to precision criteria. The results for magnesium and manganese are estimated due to accuracy criteria.
LT-9 DUP	The results for acetone and 1,4-dichlorobenzene are estimated due to precision criteria. The results for 1,2-dichlorobenzene and methylene chloride are estimated due to field precision criteria. The result for mercury is estimated due to precision criteria. The results for magnesium and manganese are estimated due to accuracy criteria.
QUALITY ASSURANCE/QUALITY CONTROL SAMPLES	
QS-003	Result for methylene chloride is false-positive due to method blank contamination.

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Appendix A

Laboratory Analytical Data Summary Tables

TABLE A-1 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITES 1 & 3 ON 24 APRIL 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			MW-202A	MW-203	MW-204	MW-2101	MW-217B	MW-218	MW-218 (Dup)	MW-219	MW-240
			Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample
Compound/Element	MEG (a)	MCL (b)									
Total VOC	---	---	64.9	1.4	ND	ND	104.1	ND	0.5	ND	ND
1,1,1-Trichloroethane	200	200	37	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2,2-Tetrachloroethane	---	---	23	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	0.9J	(<1U)	(<1U)	(<1U)	0.8J	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	14	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	0.7J	(<1U)	(<1U)	0.6J	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,3-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	0.5J	(<1U)	(<1U)
1,4-Dichlorobenzene	27	75	(<1U)	(<1U)	(<1U)	(<1U)	**79**	(<1U)	(<1U)	(<1U)	(<1U)
Acetone	---	---	(<5U)	(<5U)	(<5U)	(<5U)	16	(<5U)	(<5U)	(<5U)	(<5U)
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)
Chlorobenzene	47	100	(<1U)	(<1U)	(<1U)	(<1U)	1	(<1U)	(<1U)	(<1U)	(<1U)
Ethylbenzene	700	700	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Toluene	1,400	1,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Vinyl chloride	0.15	2	(<2U)	(<2U)	(<2U)	(<2U)	**8**	(<2U)	(<2U)	(<2U)	(<2U)
Xylenes, total	600	10,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Concentrations highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE A-2 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITES 1 & 3 ON 24 APRIL 2001
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			MW-202A	MW-203	MW-204	MW-2101	MW-218	MW-218 (Dup)	MW-219	MW-240
			Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample
Compound/Element	MEG (a)	MCL (b)								
Aluminum	1,430	200	44.4B*	58.5B*	43.3B*	96.7B*	**213B***	**247B***	73.9B*	157B*
Arsenic	---	50	(<2.53U)	(<2.53U)	(<2.53U)	(<2.53U)	**121**	**133**	(<2.53U)	(<2.53U)
Barium	1,500	2,000	35.5	47.3	0.98B*	46.3	3.5B*	3.9B*	4.2B*	16.7
Calcium	---	---	77,800	85,700	3,030	39,700	32,600	29,100	12,000	11,500
Chromium	100	100	0.81B*	4.3B*	2.9B*	1.8B*	6.6B*	10.1B*	3.8B*	1.5B*
Cobalt	---	---	12B*	(<0.92U)	(<0.92U)	(<0.92U)	2.1B*	2.7B*	(<0.92U)	1.7B*
Copper	---	1,300	12.9B*	1.9B*	(<0.84U)	(<0.84U)	1B*	0.9B*	(<0.84U)	(<0.84U)
Iron	---	300	**2,610**	26.6B*	17.4B*	42.9B*	**5,740**	**5,930**	116	29.4B*
Lead	---	15	(<1.48U)	(<1.48U)	(<1.48U)	(<1.48U)	(<1.48U)	(<1.48U)	(<1.48U)	(<1.48U)
Magnesium	---	---	8,840	27,600	969	5,820	16,800	15,400	4,020	1,730
Manganese	200	50	**366**	9.5	1.6B*	6.7	**1,730**	**1,630**	2.1B*	**98**
Mercury	2	2	(<0.03U)	(<0.03U)	(<0.03U)	(<0.03U)	0.05B*	0.05B*	(<0.03U)	(<0.03U)
Nickel	100	100	26.9B*	7.7B*	3B*	4B*	8.1B*	11.5B*	3.4B*	11.1B*
Potassium	---	---	6,420	4,710	397B*	4,010	8,220	8,540	1,230	3,740
Selenium	10	50	(<3.04U)	(<3.04U)	(<3.04U)	3B*	(<3.04U)	(<3.04U)	(<3.04U)	(<3.04U)
Sodium	---	---	8,180	46,700	3,500	5,060	158,000	180,000	8,330	4,070
Zinc	---	5,000	1.2B*	0.64B*	(<0.47U)	2.5B*	15.3B*	15.8B*	(<0.47U)	(<0.47U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.
Concentrations highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE A-3 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM THE EASTERN PLUME BETWEEN 30 APRIL AND 03 MAY 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			MW-105A	MW-1104				MW-205	MW-205 (Dup)
			Deep Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)							
Total VOC	---	---	ND	19.8	1	1	1	277	291
1,1,1-Trichloroethane	200	200	(<1U)	9	1	1	1	150	160
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
1,1-Dichloroethane	70	---	(<1U)	2	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	12	12
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
1,2-Dichloroethene, total	70	70	(<1U)	3	(<1U)	(<1U)	(<1U)	13	13
2-Butanone	---	---	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<10U)	(<10U)
Acetone	---	---	(<5U)	(<5U)	8B	9B	10B	(<10U)	(<10U)
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	23B	(<2U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<2U)	(<2U)
Tetrachloroethene	3	5	(<1U)	0.8J	(<1U)	(<1U)	(<1U)	8	8
Trichloroethene	5	5	(<1U)	5	(<1U)	(<1U)	(<1U)	94	98

			MW-207A	MW-207A (Dup)	MW-224	MW-225A				MW-229A	MW-229A (Dup)
			Low-flow sample	Low-flow sample	Mid-depth Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Mid-depth Diffusion Sample	Mid-depth Diffusion Sample
Compound/Element	MEG (a)	MCL (b)									
Total VOC	---	---	36	36	3	16.9	23.3	19.9	12.5	83	77
1,1,1-Trichloroethane	200	200	4	4	(<1U)	2	3	2	2	34	30
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	0.5J	(<1U)	(<1U)	3	2
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	14	14	(<1U)	6	8	7	5	7	7
2-Butanone	---	---	(<5U)	(<5U)	3J	(<5U)	5J	5J	5J	(<5U)	(<5U)
Acetone	---	---	(<5U)	(<5U)	5J	(<5U)	19B	19B	22	7	6
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	5	4	(<1U)	0.9J	0.8J	0.9J	0.5J	4	5
Trichloroethene	5	5	13	14	(<1U)	8	6	5	(<1U)	35	33

TABLE A-3 (CONTINUED)

			MW-230A				MW-231A				MW-231A (Dup)
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Low-flow sample
Compound/Element	MEG (a)	MCL (b)									
Total VOC	---	---	ND	0.9	1	1	ND	4	4	4	ND
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	0.9J	1	1J	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
2-Butanone	---	---	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	4J	4J	4J	(<5U)
Acetone	---	---	(<5U)	(<5U)	3J	6B	(<5U)	9	10	9B	(<5U)
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

			MW-231B				MW-303			
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)								
Total VOC	---	---	ND	3	4	4	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
2-Butanone	---	---	(<5U)	3J	4J	4J	(<5U)	(<5U)	(<5U)	(<5U)
Acetone	---	---	(<5U)	8B	9	8	(<5U)	(<5U)	22	18
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

TABLE A-3 (CONTINUED)

			MW-305				MW-306	MW-308			
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)									
Total VOC	---	---	ND	6	7	7	408.6	ND	ND	8	ND
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	200	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	25	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	**10**	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	**86**	(<1U)	(<1U)	(<1U)	(<1U)
2-Butanone	---	---	(<5U)	6	7	7	5	(<5U)	(<5U)	8	(<5U)
Acetone	---	---	(<5U)	25B	17B	21B	17	(<5U)	(<5U)	18B	5JB
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	2	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	0.6J	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	**80**	(<1U)	(<1U)	(<1U)	(<1U)

			MW-309B				MW-311	MW-311 (Dup)
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)						
Total VOC	---	---	ND	4	4	4	308	306
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	3	2
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	48	47
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	**84**	**84**
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	3	3
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	2	2
2-Butanone	---	---	(<5U)	4J	4J	4J	4J	4J
Acetone	---	---	(<5U)	26B	25B	20B	9B	9B
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	2	2
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	**4**	**4**
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	**160**	**160**

TABLE A-3 (CONTINUED)

			MW-313				MW-318				MW-319
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)									
Total VOC	---	---	3	0.7	5	5	ND	5	4	5	91
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	1
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	3	0.7J	3	3	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	2	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	0.6JB	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	11
2-Butanone	---	---	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	5J	4J	5J	6
Acetone	---	---	6	7	6	7	(<5U)	8	9	10	8B
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	59
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	14

			MW-330				MW-331	MW-331 (Dup)	MW-332	MW-332 (Dup)
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Mid-depth Diffusion Sample	Mid-depth Diffusion Sample	Mid-depth Diffusion Sample	Mid-depth Diffusion Sample
Compound/Element	MEG (a)	MCL (b)								
Total VOC	---	---	ND	8	ND	ND	500.7	438.7	204	204
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	300D	260D	130	130
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	24	24	4	4
1,1-Dichloroethene	7	7	(<1U)	(<1U)	(<1U)	(<1U)	36	31	13	13
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	1	1	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	32	32	2	2
2-Butanone	---	---	(<5U)	8	(<5U)	(<5U)	6	7	5	5
Acetone	---	---	(<5U)	19	(<5U)	(<5U)	10B	10	10B	10B
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	0.7J	0.7J	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	2	2	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	4	4	3	3
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	97	79	47	47

TABLE A-3 (CONTINUED)

			MW-333				MW-334			
			Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)								
Total VOC	---	---	6	5	5	ND	0.6	0.6	0.7	0.7
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	4	3	3	(<1U)	0.6J	0.6J	0.7J	0.7J
1,1-Dichloroethene	7	7	2	2	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
2-Butanone	---	---	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)
Acetone	---	---	(<5U)	12	12	8	(<5U)	7	6	7
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

			MW-NASB-212	MW-NASB-212 (Dup)	P-106	P-106 (Dup)	P-111	P-132			
			Shallow Diffusion Sample	Shallow Diffusion Sample	Low-flow sample	Low-flow sample	Low-flow sample	Low-flow sample	Shallow Diffusion Sample	Mid-depth Diffusion Sample	Deep Diffusion Sample
Compound/Element	MEG (a)	MCL (b)									
Total VOC	---	---	16	15	2,459	2,693	ND	ND	ND	4	6
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	**1,500D**	**1,700D**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2-Trichloroethane	3	5	(<1U)	(<1U)	1	1	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	70	---	(<1U)	(<1U)	68	**71**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethene	7	7	(<1U)	(<1U)	**190**	**160D**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	600	600	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethane	5	5	(<1U)	(<1U)	2	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	2	1	39	40	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
2-Butanone	---	---	6	6	(<5U)	(<5U)	(<5U)	(<5U)	(<5U)	4J	6
Acetone	---	---	21B	20B	(<5U)	6B	(<5U)	(<5U)	4JB	5B	19
Benzene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chloroform	---	100	(<1U)	(<1U)	1J	1	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Methylene chloride	---	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	**8**	**8**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	**8**	**8**	**650D**	**710D**	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

TABLE A-3 (CONTINUED)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
U = Not detected. Sample quantitation limits are shown as (<____U).
D = Concentration from a secondary dilution.
J = Estimated concentration.
B = Compound detected in associated method blank.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Concentrations highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE A-4 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM THE GWETS ON 03 MAY 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			Eastern Plume Combined Effluent	Eastern Plume Combined Effluent (Dup)	Eastern Plume Raw Influent	EW-02A	EW-04	EW-05A
			Grab Sample	Grab Sample	Grab Sample	Low-flow sample	Low-flow sample	Low-flow sample
Compound/Element	MEG (a)	MCL (b)						
Total VOC	---	---	ND	ND	858.8	337	1,010.1	192.3
1,1,1-Trichloroethane	200	200	(<1U)	(<1U)	**670D**	190	**780D**	110
1,1-Dichloroethane	70	---	(<1U)	(<1U)	16	12	20	10
1,1-Dichloroethene	7	7	(<1U)	(<1U)	**28**	**26**	**24**	**18**
1,2-Dichloroethane	5	5	(<1U)	(<1U)	0.8J	1	0.6J	0.6J
1,2-Dichloroethene, total	70	70	(<1U)	(<1U)	36	13	69	4
Carbon tetrachloride	---	---	(<1U)	(<1U)	(<1U)	(<1U)	0.5J	(<1U)
Chloroform	---	100	(<1U)	(<1U)	2	(<1U)	4	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	**6**	**10**	2	0.7J
Trichloroethene	5	5	(<1U)	(<1U)	**100**	**85**	**110**	**49**

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
GWETS = Ground-water Extraction and Treatment System
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
U = Not detected. Sample quantitation limits are shown as (<____U).
D = Concentration from a secondary dilution.
J = Estimated concentration.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Concentrations highlighted with gray and bold type denote exceedance of MEG or MCL.

TABLE A-5 SUMMARY OF SURFACE WATER SAMPLES COLLECTED FROM SITES 1 & 3 BETWEEN 23 APRIL AND 02 MAY 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SW-04	SW-04 (Dup)	SW-07	SW-08	SW-09	SW-15	SW-16
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)							
Total VOC	---	---	ND	ND	ND	ND	ND	2.4	4.9
Acetone	---	---	(<5U)	3J	3J	3J	(<5U)	(<5U)	(<5U)
Carbon disulfide	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	4.9
Chloroform	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	2.4	(<1U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
J = Estimated concentration.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.

TABLE A-6 SUMMARY OF SURFACE WATER SAMPLES COLLECTED FROM SITES 1 & 3 BETWEEN 23 APRIL AND 02 MAY 2001
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			SW-04	SW-04 (Dup)	SW-07	SW-08	SW-09	SW-15	SW-16
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)							
Aluminum	---	---	795	697	1,310	4,910	4,080	---	---
Antimony	---	---	(<3.65U)	(<3.65U)	(<3.65U)	(<3.65U)	(<3.65U)	---	---
Arsenic	---	---	(<2.53U)	(<2.53U)	(<2.53U)	(<2.53U)	(<2.53U)	---	5.9
Barium	---	---	23.2	22.9	25	43	42.4	---	27
Beryllium	---	---	(<0.18U)	(<0.18U)	(<0.18U)	0.34B*	0.28B*	---	---
Cadmium	---	---	0.24B*	(<0.24U)	(<0.24U)	(<0.24U)	(<0.24U)	---	(<1U)
Calcium	---	---	10,200	10,100	9,880	10,400	10,600	---	---
Chromium	---	---	1.1B*	0.93B*	1.9B*	7.6B*	6.1B*	---	(<10U)
Cobalt	---	---	(<0.92U)	(<0.92U)	(<0.92U)	2.3B*	2B*	---	---
Copper	---	---	(<0.84U)	(<0.84U)	(<0.84U)	4.4B*	3.9B*	---	(<10U)
Iron	---	---	1,320	1,180	1,980	6,820	5,620	---	290
Lead	---	---	1.9B*	2.4B*	3.1B*	4.8B*	4.9B*	---	(<2U)
Magnesium	---	---	2,060	2,020	2,200	3,490	3,220	---	---
Manganese	---	---	235	234	245	311	304	---	64
Mercury	---	---	(<0.03U)	(<0.03U)	(<0.03U)	(<0.03U)	(<0.03U)	---	(<0.2U)
Nickel	---	---	2.8B*	2.5B*	3.4B*	8.6B*	7.4B*	---	---
Potassium	---	---	1,960	1,970	2,120	3,110	3,030	---	---
Selenium	---	---	(<3.04U)	(<3.04U)	(<3.04U)	(<3.04U)	(<3.04U)	---	(<7.6U)
Silver	---	---	(<1.03U)	(<1.03U)	(<1.03U)	(<1.03U)	(<1.03U)	---	(<1U)
Sodium	---	---	17,700	17,700	17,500	17,300	18,000	---	24,000
Thallium	---	---	(<4.74U)	(<4.74U)	(<4.74U)	(<4.74U)	(<4.74U)	---	---
Vanadium	---	---	1.6B*	1.4B*	2.4B*	9.5B*	7.9B*	---	---
Zinc	---	---	6.8B*	6.5B*	8.1B*	19.3B*	17.7B*	---	---

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
The sample from SW-15 was not analyzed for these parameters.
The sample from SW-16 was not analyzed for the parameters indicated by dashes (---).
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.

TABLE A-7 SUMMARY OF SURFACE WATER SAMPLES COLLECTED FROM THE EASTERN PLUME ON 26 APRIL 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SW-10	SW-11	SW-12	SW-13	SW-13 (Dup)	SW-14
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)						
Total VOC	---	---	ND	ND	3	12.1	12	11
2-Butanone	---	---	(<5U)	(<5U)	3J	11	12	11
Acetone	---	---	2JB	(<5U)	9B	23B	26B	24B
Toluene	---	---	(<1U)	(<1U)	(<1U)	0.5J	(<1U)	(<1U)
Xylenes, total	---	---	(<1U)	(<1U)	(<1U)	0.6J	(<1U)	(<1U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
J = Estimated concentration.
B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.

TABLE A-8 SUMMARY OF LEACHATE SAMPLES COLLECTED FROM SITES 1 & 3 ON 26 APRIL 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SEEP-01	SEEP-04	SEEP-05	SEEP-09	SEEP-09 (Dup)
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)					
Total VOC	---	---	12	47.2	ND	0.5	0.5
1,1,1-Trichloroethane	---	---	4	(<1U)	(<1U)	(<1U)	(<1U)
1,1,2,2-Tetrachloroethane	---	---	8	(<1U)	(<1U)	(<1U)	(<1U)
1,1-Dichloroethane	---	---	(<1U)	9	(<1U)	0.5J	0.5J
1,1-Dichloroethene	---	---	(<1U)	0.5J	(<1U)	(<1U)	(<1U)
1,2-Dichlorobenzene	---	---	(<1U)	0.8JB	2B	3B	2B
1,2-Dichloroethene, total	---	---	(<1U)	23	(<1U)	(<1U)	(<1U)
1,4-Dichlorobenzene	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Chlorobenzene	---	---	(<1U)	0.7J	(<1U)	(<1U)	(<1U)
Ethylbenzene	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	---	---	(<1U)	6	(<1U)	(<1U)	(<1U)
Vinyl chloride	---	---	(<2U)	8	(<2U)	(<2U)	(<2U)
Xylenes, total	---	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
U = Not detected. Sample quantitation limits are shown as (<____U).
B = Compound detected in associated method blank.
J = Estimated concentration.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.

TABLE A-9 SUMMARY OF LEACHATE SAMPLES COLLECTED FROM SITES 1 & 3 ON 26 APRIL 2001
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			SEEP-01	SEEP-04	SEEP-05	SEEP-09	SEEP-09 (Dup)
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)					
Aluminum	---	---	9,570	157B*	908	156B*	223B*
Antimony	---	---	(<9.13U)	(<3.65U)	(<9.13U)	(<3.65U)	(<3.65U)
Arsenic	---	---	36.9	(<2.53U)	220	(<2.53U)	7.8B*
Barium	---	---	426	46.1	111	31.3	26
Beryllium	---	---	5.1B*	(<0.18U)	(<0.45U)	(<0.18U)	(<0.18U)
Cadmium	---	---	4.7B*	(<0.24U)	(<0.6U)	(<0.24U)	0.58B*
Calcium	---	---	164,000	105,000	34,500	29,300	25,900
Chromium	---	---	13.8B*	(<0.57U)	(<1.43U)	(<0.57U)	(<0.57U)
Cobalt	---	---	823	2.8B*	10B*	1.4B*	1.5B*
Copper	---	---	41.6B*	(<0.84U)	(<2.1U)	(<0.84U)	(<0.84U)
Iron	---	---	207,000	31,400	343,000	28,600	37,600
Lead	---	---	78	(<1.48U)	4.9B*	(<1.48U)	2B*
Magnesium	---	---	10,800	14,400	8,330	4,250	3,970
Manganese	---	---	8,090	1,100	2,850	1,040	728
Mercury	---	---	2	(<0.03U)	(<0.3U)	(<0.03U)	(<0.03U)
Nickel	---	---	179	2.7B*	5.6B*	2.3B*	2.1B*
Potassium	---	---	12,800	8,910	4,760	5,450	5,150
Selenium	---	---	11.4B*	(<3.04U)	(<7.6U)	(<3.04U)	(<3.04U)
Sodium	---	---	18,600	24,300	14,800	13,700	13,800
Vanadium	---	---	95	0.53B*	2.8B*	(<0.52U)	(<0.52U)
Zinc	---	---	238	3.3B*	8.8B*	2.4B*	3B*

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.

TABLE A-10 SUMMARY OF LEACHATE SAMPLES COLLECTED FROM THE EASTERN PLUME ON 26 APRIL 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SEEP-10	SEEP-11
			Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)		
Total VOC	---	---	ND	ND

NO VOCs DETECTED

Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.

TABLE A-11 SUMMARY OF LEACHATE STATION SEDIMENT SAMPLES COLLECTED FROM SITES 1 & 3 ON 27 APRIL 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			LT-01	LT-03	LT-04	LT-05	LT-09	LT-09 (Dup)
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)						
Total VOC	---	---	1	ND	4,679	ND	254	1,033
1,1,1-Trichloroethane	---	---	1	(<2U)	(<36U)	(<6U)	(<4U)	(<4U)
1,1-Dichloroethane	---	---	(<1U)	(<2U)	630	(<6U)	17	26
1,1-Dichloroethene	---	---	(<1U)	(<2U)	29J	(<6U)	(<4U)	(<4U)
1,2-Dichlorobenzene	---	---	(<1U)	(<2U)	400B	18B	410B	920B
1,2-Dichloroethene, total	---	---	(<1U)	(<2U)	2,200	(<6U)	(<4U)	(<4U)
1,3-Dichlorobenzene	---	---	(<1U)	(<2U)	37B	(<6U)	(<4U)	(<4U).
1,4-Dichlorobenzene	---	---	(<1U)	(<2U)	870B	(<6U)	140	820
2-Butanone	---	---	(<7U)	(<10U)	610	(<30U)	48	35
Acetone	---	---	24	280	2,600	78	180	210
Carbon disulfide	---	---	(<1U)	(<2U)	490	(<6U)	19	25
Chlorobenzene	---	---	(<1U)	(<2U)	230	(<6U)	30	120
Methylene chloride	---	---	8B	19	240B	35	(<4U)	22
Trichloroethene	---	---	(<1U)	(<2U)	(<36U)	(<6U)	(<4U)	7
Vinyl chloride	---	---	(<3U)	(<4U)	490	(<12U)	(<9U)	(<9U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per kilogram (mg/Kg).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.

TABLE A-12 SUMMARY OF LEACHATE STATION SEDIMENT SAMPLES COLLECTED FROM SITES 1 & 3 ON 27 APRIL 2001
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			LT-01	LT-03	LT-04	LT-05	LT-09	LT-09 (Dup)
			Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Compound/Element	MEG (a)	MCL (b)						
Aluminum	---	---	5,400	4,230	4,120	487	12,700	15,400
Arsenic	---	---	1.9	3.1	59.7	1,740	265	184
Barium	---	---	19.6	31.5	69	27.9	42.5	51.2
Beryllium	---	---	0.59B*	0.26B*	0.62B*	0.15B*	0.7B*	0.95B*
Cadmium	---	---	0.47B*	(<0.03U)	(<0.25U)	(<1.03U)	(<0.38U)	(<0.18U)
Calcium	---	---	2,500	1,580	15,100	1,340	3,340	4,250
Chromium	---	---	10.2	11.6	12.1	(<2.44U)	12.9	21
Cobalt	---	---	17.5	4.3	15.4B*	14.4	40.3	126
Copper	---	---	6.8	5.1	7.9B*	(<0.36U)	8.7	13.3
Iron	---	---	6,940	25,500	153,000	596,000	268,000	176,000
Lead	---	---	12.9	4.1	55.9	(<6.33U)	20.9	29.5
Magnesium	---	---	1,920	2,030	1,230	108	2,320	3,350
Manganese	---	---	140	1,540	477	620	703	595
Mercury	---	---	1.2	(<0.01U)	3.6	(<0.02U)	0.13	0.22
Nickel	---	---	21.7	10.4	12.7B*	4.1B*	15.7	26.6
Potassium	---	---	922	781	504B*	114B*	1,350	1,880
Selenium	---	---	0.82B*	(<0.4U)	3.2B*	(<13U)	(<4.76U)	3.6B*
Silver	---	---	0.4B*	(<0.14U)	(<0.54U)	(<0.44U)	(<0.32U)	(<0.39U)
Sodium	---	---	121B*	49.9B*	481B*	(<78.7U)	(<57.61U)	213B*
Thallium	---	---	(<0.73U)	2.6	(<4.97U)	21B*	(<7.42U)	(<3.6U)
Vanadium	---	---	19.9	18.9	30.6	4B*	29.4	40.5
Zinc	---	---	39.3	14.9	55.5	(<0.2U)	34.3	48.5

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per kilogram (mg/Kg).
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.

TABLE A-13 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM SITES 1 & 3 BETWEEN 24 APRIL AND 27 APRIL 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			QT-001	QT-002	QT-003	S1-QD-001	S1-QS-001	S1-QS-002
			Trip Blank	Trip Blank	Trip Blank	Source Water Blank	Rinsate Blank	Rinsate Blank
Compound/Element	MEG (a)	MCL (b)						
Total VOC	---	---	ND	ND	ND	ND	ND	ND
Acetone	---	---	5J	(<5U)	(<5U)	4J	3J	4J
Methylene chloride	---	---	(<1U)	0.6J	0.6JB	(<1U)	(<1U)	(<1U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.

TABLE A-14 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM SITES 1 & 3 BETWEEN 24 APRIL AND 27 APRIL 2001
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			S1-QD-001	S1-QS-001	S1-QS-002
			Source Water Blank	Rinsate Blank	Rinsate Blank
Compound/Element	MEG (a)	MCL (b)			
Aluminum	---	---	86.4B*	89.9B*	90B*
Barium	---	---	(<0.15U)	0.32B*	0.2B*
Beryllium	---	---	0.24B*	(<0.18U)	0.19B*
Calcium	---	---	47.4B*	(<7.68U)	(<7.68U)
Iron	---	---	18B*	17.6B*	36.5B*
Lead	---	---	2.4B*	1.9B*	2.3B*
Magnesium	---	---	(<7.06U)	(<7.06U)	7.5B*
Manganese	---	---	0.3B*	0.39B*	0.71B*
Nickel	---	---	(<0.72U)	0.78B*	0.98B*
Sodium	---	---	246B*	301B*	362B*
Zinc	---	---	(<0.47U)	2.7B*	0.55B*

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.
Refer to data Quality Review section (Appendix B) for Method Detection Limits for referenced analytical methods.

TABLE A-15 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM THE EASTERN PLUME BETWEEN 01 MAY AND 03 MAY 2001
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			EP-QD-001	EP-QS-001	QT-004	QT-005
			Source Water Blank	Field Blank	Trip Blank	Trip Blank
Compound/Element	MEG (a)	MCL (b)				
Total VOC	---	---	ND	2	ND	ND
Acetone	---	---	(<5U)	19	(<5U)	(<5U)
Benzene	---	---	(<1U)	2	(<1U)	(<1U)
Methylene chloride	---	---	(<1U)	(<1U)	0.7J	(<1U)

(a) MEG (Maximum Exposure Guideline) obtained from State of Maine Department of Human Services Maximum Exposure Guidelines, memorandum dated 23 October 1992. Dashes (---) indicate compound has no applicable MEG.
(b) MCL (Maximum Contaminant Level) obtained from 40 CFR Parts 141 and 142 (U.S. EPA 1998). Dashes (---) indicate compound has no applicable MCL.

NOTE:
Units are micrograms per liter (µg/L).
Total VOC calculation does not include Acetone or Methylene Chloride (common laboratory contaminants) or VOCs detected in the field or method blank samples.
ND = Not Detected.
U = Not detected. Sample quantitation limits are shown as (<____U).
J = Estimated concentration.
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.

Appendix B

Field Monitoring and Sampling Forms

B.1 Field Record of Well Gauging Forms
B.2 Field Record of Well Gauging, Purging, and Sampling Forms
B.3 Field Record of Surface Water and Sediment Sampling Forms
B.4 Field Record of Seep Sampling Forms

Appendix B.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Sites 1+3	Project No: 2960047 1506	Date: 4/19/01
Weather/Temperature: Sunny, 40°		
EA Personnel: SC	Equipment: water level indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-201R	Y Y	Y	0		Good		58.88	10.94	49.08	47.94
MW-202A	Y Y	Y	0		Good		52.40	18.78	31.09	33.62
MW-203	Y Y	Y	0		Good		52.75	31.27	42.04	21.48
MW-204	Y Y	Y	0		Good		50.50	29.54	37.18	20.96
MW-210B	Y Y	Y	0		Good		54.72	29.41	40.50	25.31
MW-211B	Y Y	Y	0		Good		65.44	32.48	36.50	32.96
MW-215R	Y Y	Y	0		Good		62.26	30.47	59.00	31.79
MW-217B	Y Y	Y	0		Good		61.25	28.60	32.90	32.65
MW-234R	Y Y	Y	0		Good		68.55	36.58	59.52	31.97
MW-240	Y Y	Y	0		Good		52.21	29.70	42.60	22.51
MW-2101	Y Y	Y	0		Good		61.05	11.34	30.00	49.71
MW-216A	Y Y	Y	0		Good		71.17	38.82	47.71	32.35
MW-217A	Y Y	Y	0		Good		61.78	30.28	47.40	31.50

NOTE: All measurements in feet mean sea level (MSL).

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Sites 1+3	Project No: 29600.47.156C	Date: 4/19/01
Weather/Temperature: Sunny, 40°		
EA Personnel: SC	Equipment: water level, indicator TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-218	Y Y	Y	0		Good	--	54.16	33.65	53.54	20.51
MW-219	Y Y	Y	0		Good		51.87	29.98	71.82	21.89
MW-220	Y Y	Y	0		Good		47.20	26.54	51.50	20.66
MW-232A	Y Y	Y	0		Good		71.18	39.10	54.74	32.08
MW-233R	Y Y	Y	0		Good		63.94	32.02	38.71	31.92
MW-210A	Y Y	Y	0		Good		52.17	19.15	106.32	33.02
MW-210R	Y Y	Y	0		Good		55.90	21.89	112.35	34.01
MW-211A	Y Y	Y	0		Good		65.59	24.42	142.76	41.17
EW-6	Y Y	Y	0		Good *		57.74	21.72	39.05	36.02
EW-7	Y Y	Y	0		Good		51.13	26.45	38.90	24.68
EP-16	Y Y	Y	0		Good		58.92	33.81	58.77	25.11
EP-17	Y Y	Y	0		Good		69.73	37.53	42.85	32.20
EP-18	Y Y	Y	0		Good		68.58	36.41	38.10	32.17

NOTE: All measurements in feet mean sea level (MSL).

* 2.5 Ft of water in vault. Unable to check status of bottom of vault. Previously reported that the vault appeared to be sinking.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Site 113	Project No: 29600471506	Date: 4/19/01
Weather/Temperature: Sunny, 40°		
EA Personnel: SC	Equipment: TVA-1000, water level indicator	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
EP-19	Y Y	Y	0	0	Good	--	68.22	36.19	47.30	32.03
EP-20	Y Y	Y	0	0	Good		69.55	37.25	47.25	32.30

NOTE: All measurements in feet mean sea level (MSL).

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Eastern Plume	Project No: 29600 47 1506	Date: 4/13 – 4/18/01
Weather/Temperature: Sunny, 40°		
EA Personnel: SC	Equipment: water level indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
			Air Ambient	Well Mouth						
MW-105B	Y Y	Y	0	0	Good		24.55	5.99	21.91	18.56
MW-106	Y Y	Y	0	0	Good		51.26	23.56	37.27	27.70
MW-206B	Y Y	Y	0	0	Good		42.77	19.49	27.17	23.28
MW-207B	Y Y	Y	0	0	Good		22.90	2.79	9.21	20.11
MW-209	Y Y	Y	0	0	Good		54.84	26.55	32.38	28.29
MW-222	Y Y	Y	0	0	Good		57.43	28.64	45.34	28.79
MW-223	Y Y	Y	0	0	Good		53.71	25.67	42.61	28.04
MW-224	Y Y	Y	0	0	Good		57.63	28.15	46.01	29.48
MW-225D	Y Y	Y	0	0	Good		46.25	20.62	42.00	25.63
MW-229B	Y Y	Y	0	0	Good		30.08	14.32	33.14	15.76
MW-231B	Y Y	Y	0	0	Good		46.31	25.60	37.99	20.71
MW307	Y Y	Y	0	0	Good		62.70	16.82	22.21	45.88
MW-313	Y Y	Y	0	0	Good		21.39	7.71	37.47	13.68

NOTE: All measurements in feet mean sea level (MSL).

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Eastern Plume	Project No: 29600.47 1506	Date: 4/13/01 – 4/18/01
Weather/Temperature:		
EA Personnel: SC	Equipment:	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-318	Y Y	Y	0	0	Good		24.28	4.34	25.14	19.94
MW-332	Y Y	Y	0	0	Good		25.33	8.31	21.03	17.02
MW-1104	Y Y	Y	0	0	Good		60.09	10.98	27.55	49.11
MW-105A	Y Y	Y	0	0	Good		24.19	2.34	47.75	21.85
MW-205	Y Y	Y	0	0	Good		45.99	23.33	79.00	22.66
MW-206A	Y Y	Y	0	0	Good		43.02	18.72	74.36	24.30
MW-207A	Y Y	Y	0	0	Poor		24.06	*	75.55	—
MW-208	Y Y	Y	0	0	Good		49.40	21.52	102.8	27.88
MW-225A	Y Y	Y	0	0	Good		45.95	19.52	76.03	26.43
MW-229A	Y Y	Y	0	0	Good		33.83	13.22	64.97	20.61
MW-230A	Y Y	Y	0	0	Good		36.32	15.15	81.49	21.17
MW-231A	Y Y	Y	0	0	Good		45.41	21.08	61.19	24.33
MW-303	Y Y	Y	0	0	Good		44.28	12.40	72.75	31.88

NOTE: All measurements in feet mean sea level (MSL).

* unable to gauge. broken pvc casing. well scheduled for replacement

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Eastern Plume	Project No: 29600471506	Date: 4/13/01 - 4/18/01
Weather/Temperature: Sunny, 48		
EA Personnel: SC	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-305	Y Y	Y	0	0	Good	--	43.09	12.81	53.51	30.28
MW-306	Y Y	Y	0	0	Good		52.12	19.92	56.98	32.20
MW-310	Y Y	Y	0	0	Good		53.39	28.08	73.25	25.31
MW-311	Y Y	Y	0	0	Good		21.48	15.10	56.25	6.38
MW-312	Y Y	Y	0	0	Good		35.97	11.39	71.15	24.58
MW-319	Y Y	Y	0	0	Good		40.16	13.47	72.60	26.69
MW-330	Y Y	Y	0	0	Good		35.71	5.73	36.36	29.98
MW-331	Y Y	Y	0	0	Good		30.54	2.61	56.23	27.93
MW-333	Y Y	Y	0	0	Good		27.25	10.60	42.85	16.65
MW-334	Y Y	Y	0	0	Good		30.93	11.16	47.80	19.77
MW-N45B-212	Y Y	Y	0	0	Good		41.64	9.52	64.29	32.12
MW-308	Y Y	Y	0	0	Good		37.70	5.54	73.25	32.16
MW-309A	Y Y	Y	0	0	Good		22.84	*2.31	72.71	25.15

NOTE: All measurements in feet mean sea level (MSL).

* 309A = 2psi = 2.31 ft

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Eastern Plume	Project No: 29600471506	Date: 4/13 - 4/18
Weather/Temperature: Sunny, 40°		
EA Personnel: SC	Equipment: water level indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-309B	Y Y	Y	0	0	Good	--	22.32	2.63	59.25	19.69
MW-316A	Y Y	Y	0	0	Good		53.71	21.98	103.10	31.73
MW-316B	Y Y	Y	0	0	Good		54.40	12.89	57.85	41.51
MW-317A	Y Y	Y	0	0	Good		71.35	15.84	120.79	55.51
MW-317B	Y Y	Y	0	0	Good		70.10	14.63	96.95	55.47
P-103	Y Y	Y	0	0	Good		60.35	27.43	28.75	32.92
P-111	Y Y	Y	0	0	Good		31.48	5.97	9.98	25.51
P-121	Y Y	Y	0	0	Good		50.78	5.78	17.35	45.00
P-132	Y Y	Y	0	0	Good		42.95	16.57	32.46	26.38
P-105	Y Y	Y	0	0	Good		42.08	10.44	70.35	31.64
P-106	Y Y	Y	0	0	Good		38.83	11.20	72.40	27.63
EW-1	Y Y	Y	0	0	Good		25.34	9.30	99.66	16.04
EW-2A	Y Y	Y	0	0	Good		22.27	38.75	66.00	-16.48

NOTE: All measurements in feet mean sea level (MSL).

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Eastern Plume	Project No: 29600471506	Date: 4/13 - 4/18
Weather/Temperature: Sunny 40°		
EA Personnel: SC	Equipment: Water Level indicator TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
EW-4	Y Y	Y	0	0	Good	--	37.13	13.81	69.37	23.32
EW-5A	Y Y	Y	0	0	Good		37.63	32.31	82.00	5.32
EP-1	Y Y	Y	0	0	Good		31.67	9.25	101.22	22.42
EP-2	Y Y	Y	0	0	Good		29.74	7.48	99.00	22.26
EP-3	Y Y	Y	0	0	Good		27.91	5.46	89.21	22.45
EP-4	Y Y	Y	0	0	Good		32.59	7.11	91.11	25.48
EP-5	Y Y	Y	0	0	Good		34.61	8.24	79.85	26.37
EP-6	Y Y	Y	0	0	Good		40.14	13.91	83.51	26.23
EP-7	Y Y	Y	0	0	Good		48.49	20.51	70.20	27.98
EP-8	Y Y	Y	0	0	Good		47.31	19.21	80.38	28.10
EP-9	Y Y	Y	0	0	Good		37.84	9.26	62.46	28.58
EP-10	Y Y	Y	0	0	Good		37.78	9.13	57.73	28.65
EP-11	Y Y	Y	0	0	Good		41.59	12.03	65.03	29.56

NOTE: All measurements in feet mean sea level (MSL).

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 18 Eastern Plume		Project No: 29600471506	Date: 4/13 - 4/18
Weather/Temperature: Sunny, 46°			
EA Personnel: SC		Equipment: TVA-1000 Water Level indicator	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm) Air Ambient	VOCs Concentration (ppm) Well Mouth	Casing/Seal Condition	Protective Casing Elevation (ft)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
EP-12	Y Y	Y	0	0	Good		49.38	19.60	69.61	29.78
EP-13	Y Y	Y	0	0	Good		38.96	7.03	70.93	31.93
EP-14	Y Y	Y	0	0	Good		43.46	11.42	80.05	32.04
EP-15	Y Y	Y	0	0	Good		45.37	13.75	82.68	31.62
GP-1A	—	—	—	—	Good		25.39	+2.70	—	28.09
GP-2A	—	—	—	—	Good		23.92	+2.20	—	26.12
GP-3A	—	—	—	—	Good		25.26	+0.70	—	25.96
GP-4	—	—	—	—	Good		18.39	2.60	—	15.79
GP-5A	—	—	—	—	Good*		11.47	+4.50	—	15.97
GP-6	—	—	—	—	Good		15.22	9.95	—	5.27

NOTE: All measurements in feet mean sea level (MSL).

* Dam located downstream of gauge. Water level falsely raised

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Appendix B.2

Field Record of Well Gauging, Purging, and Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 1&3 ~~MW202A~~
WELL I.D.: MW 202A
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: good
WEATHER: clear, warm

GAUGE DATE: 4/24/01
SOUNDING METHOD: water level meter
STICK UP/DOWN (ft): 2.11

GAUGE TIME: 1040
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1045
FIELD PERSONNEL:
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 31.09
B. DEPTH TO WATER (ft): 19.03
C. LIQUID DEPTH (ft) (A-B): 12.06

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 7.3
F. THREE WELL VOLUMES (L) (E*3): 22

Parameter	Beginning	1	2	3	4	5
Time (min)	1050	1055	1100	1103	1106	1109
Depth to Water (ft)	20.60	26.6	26.7	26.9	27.1	27.1
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	3.6	4.2	4.8
pH	5.41	5.54	5.60	5.62	5.63	5.65
Temperature (°C)	9.35	10.58	11.21	11.31	11.41	11.51
Conductivity (μmhos/cm)	337	341	408	427	436	442
Dissolved Oxygen (mg/L)	9.44	8.53	7.90	7.56	7.54	7.38
Turbidity (NTU)	0	0	0	0	0	0
Eh (mv)	257	247	237	234	232	229

TOTAL QUANTITY OF WATER REMOVED (L): 6

SAMPLERS: BA, KB
SAMPLING TIME (START/END): 1115
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL, HNO_3
SAMPLE BOTTLE IDs: BN-18-S1-MW202A
SAMPLE PARAMETERS: VOC metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Sites 1+3
WELL I.D.: MW-203
WELL CONDITION: good
PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 50°

GAUGE DATE: 4-24-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.12
GAUGE TIME: 1332
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
PURGE TIME: 1335
FIELD PERSONNEL: BA KB
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 42.04
B. DEPTH TO WATER (ft): 31.08
C. LIQUID DEPTH (ft) (A-B): 10.96
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 6.6
F. THREE WELL VOLUMES (L) (E*3): 19.8

Parameter	Beginning	1	2	3	4	5
Time (min)	1336	1341	1346	1351	1354	1357
Depth to Water (ft)	31.25	31.25	31.25	31.25	31.25	31.25
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	0.3	1.8	3.3	4.8	5.7	6.6
pH	3.88	5.22	5.64	5.80	5.87	5.92
Temperature (°C)	10.65	10.36	11.67	12.69	12.97	12.99
Conductivity (μmhos/cm)	816	816	848	863	877	875
Dissolved Oxygen (mg/L)	6.71	6.69	6.27	6.39	6.41	6.45
Turbidity (NTU)	6	20	17	10	9	8
Eh (mv)	203	204	205	209	212	214

TOTAL QUANTITY OF WATER REMOVED (L): 8.7

SAMPLERS: BA, KB
SAMPLING TIME (START/END): 1405
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL HNO_3
SAMPLE BOTTLE IDs: BN-18-51 - MW203
SAMPLE PARAMETERS: VOC Metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 3
WELL I.D.: MW-204
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: sunny, 50°, breezy

GAUGE DATE: 4-24-01
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 1.74

GAUGE TIME: 1350
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: ~~1352~~ 1354
FIELD PERSONNEL: SC RW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 37.18
B. DEPTH TO WATER (ft): 29.40
C. LIQUID DEPTH (ft) (A-B): 7.78

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.7
F. THREE WELL VOLUMES (L) (E*3): 14.1

Parameter	Beginning	1	2	3	4	5
Time (min)	1358	1402	1406	1410	1414	
Depth to Water (ft)	29.48	29.52	29.58	29.61	29.66	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	0.8	1.6	2.4	3.2	4	
pH	5.33	5.88	6.16	6.18	6.21	
Temperature (°C)	9.62	9.75	9.86	9.87	9.87	
Conductivity (μmhos/cm)	39	35	32	31	30	
Dissolved Oxygen (mg/L)	11.73	11.41	11.41	11.43	11.42	
Turbidity (NTU)	12	4	3	3	3	
Eh (mv)	-164	-165	-167	-167	-167	

TOTAL QUANTITY OF WATER REMOVED (L): 5

SAMPLERS: SC RW
SAMPLING TIME (START/END): 1415
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL HNO3
SAMPLE BOTTLE IDs: BN-18-S1-MW204
SAMPLE PARAMETERS: metals, voc

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Sites 1+3
WELL I.D.: MW-217B
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: locked
WEATHER: Sunny, 50°

GAUGE DATE: 4-24-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 0

GAUGE TIME: 1010
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 20

PURGE DATE: NA
PURGE METHOD: —
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: NA
FIELD PERSONNEL: BA, KB
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 34.60
B. DEPTH TO WATER (ft): 28.45
C. LIQUID DEPTH (ft) (A-B): 6.15

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 3.7
F. THREE WELL VOLUMES (L) (E*3): 11.1

Parameter	Beginning	1	2	3	4	5
Time (min)	1020					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.98					
Temperature (°C)	9.52					
Conductivity (μmhos/cm)	850					
Dissolved Oxygen (mg/L)	0.62					
Turbidity (NTU)	—					
Eh (mv)	209					

TOTAL QUANTITY OF WATER REMOVED (L): N/A

SAMPLERS: BA, KB
SAMPLING TIME (START/END) :
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-51, MW217B
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: well sampled w/ diffusion sampler

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 1+3
WELL I.D.: MW-218
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: locked
WEATHER: sunny, 50°

GAUGE DATE: 4-24-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.61

GAUGE TIME: 1240
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1244
FIELD PERSONNEL: BA, KB
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 53.54
B. DEPTH TO WATER (ft): 33.75
C. LIQUID DEPTH (ft) (A-B): 19.79

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 12
F. THREE WELL VOLUMES (L) (E*3): 36

Parameter	Beginning	1	2	3	4	5
Time (min)	1248	1253	1258	1303	1308	1311
Depth to Water (ft)	37.63	37.63	39.40	40.57	41.11	41.53
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L)	1	2.25	3.5	4.75	6	6.75
pH	6.42	6.12	6.40	6.92	7.08	7.11
Temperature (°C)	11.65	10.62	12.21	12.70	13.39	13.46
Conductivity (μmhos/cm)	1262	1149	1154	1112	1112	1112
Dissolved Oxygen (mg/L)	0.73	2.45	1.65	0.67	0.65	0.66
Turbidity (NTU)	520	107	90	60	16	9
Eh (mv)	-122	-83	-22	-89	-93	-96

TOTAL QUANTITY OF WATER REMOVED (L): 10.25

SAMPLERS: BA, KB
SAMPLING TIME (START/END): 1325
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL HNO_3
SAMPLE BOTTLE IDs: BN-18-S1-MW218 BN-18-S1-MWXD1
SAMPLE PARAMETERS: VOC, metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1+3	Project No.: 2960047	Date: 4-24-01
Well ID: MW-218	Field Personnel: BA, KB	

Parameter	6	7	8	9	10	11
Time (min.)	1314	1317				
Depth to Water (ft)	41.57	41.65				
Purge Rate (L/min)	0.25	0.25				
Volume Purged (L)	7.5	8.25				
pH	7.12	7.13				
Temperature (°C)	13.39	13.40				
Conductivity (μmhos/cm)	1114	1110				
Dissolved Oxygen (mg/L)	0.69	0.68				
Turbidity (NTU)	9	4				
Eh (mv)	-98	-100				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 43
PROJECT NUMBER: 29600.47
WELL I.D.: MW219
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny, 50° breezy

GAUGE DATE: 4-24-01
GAUGE TIME: 1245
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.56
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE TIME: 1250
PURGE METHOD: Low Flow
FIELD PERSONNEL: SC, RW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 71.82
B. DEPTH TO WATER (ft): 29.69
C. LIQUID DEPTH (ft) (A-B): 42.13
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 25.5
F. THREE WELL VOLUMES (L) (E*3): 76.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1254	1258	1302	1306	1310	1314
Depth to Water (ft)	29.72	29.77	29.80	29.83	29.87	29.89
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	0.8	1.6	2.4	3.2	4.0	4.8
pH	6.37	6.39	6.32	6.30	6.28	6.27
Temperature (°C)	9.93	9.64	10.31	10.95	11.19	11.32
Conductivity (μmhos/cm)	104	103	103	105	105	106
Dissolved Oxygen (mg/L)	7.94	8.06	8.01	~~10.96~~ 7.98	7.93	7.90
Turbidity (NTU)	568	416	269	180	139	92
Eh (mv)	-174	-168	-165	-164	-162	-158

TOTAL QUANTITY OF WATER REMOVED (L): 12

SAMPLERS: SC, RW
SAMPLING TIME (START/END): 1345
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL, HNO_3
SAMPLE BOTTLE IDs: BN-18-51-MW219
SAMPLE PARAMETERS: VOC metals

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1+3	Project No.: 29600.47	Date: 4-24-01
Well ID: MW-21P	Field Personnel: SC, RW	

Parameter	6	7	8	9	10	11
Time (min.)	1318	1322	1326	1330	1334	1338
Depth to Water (ft)	29.87	29.84	29.84	29.84	29.86	29.86
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	5.6	6.4	7.2	8.0	8.8	9.6
pH	6.26	6.24	6.24	6.22	6.21	6.20
Temperature (°C)	11.42	11.44	11.51	11.61	11.71	11.76
Conductivity (μmhos/cm)	106	106	106	106	106	105
Dissolved Oxygen (mg/L)	7.86	7.84	7.82	7.80	7.77	7.75
Turbidity (NTU)	55	41	31	24	22	22
Eh (mv)	-171	-174	-174	-175	-175	-175

Parameter	12	13	14	15	16	17
Time (min)	1342					
Depth to Water (ft)	29.84					
Purge Rate (L/min)	0.2					
Volume Purged (L)	10.4					
pH	6.20					
Temperature (°C)	11.81					
Conductivity (μmhos/cm)	106					
Dissolved Oxygen (mg/L)	7.73					
Turbidity (NTU)	22					
Eh (mv)	-174					

COMMENTS AND OBSERVATIONS

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 3
WELL I.D.: MW-240
WELL CONDITION: Good

PROJECT NUMBER: 2960047.0
WELL LOCK STATUS: locked
WEATHER: Sunny, breezy, 50°

GAUGE DATE: 4/24/01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1037
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1043
FIELD PERSONNEL: SC, RW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 42.60
B. DEPTH TO WATER (ft): 36.52
C. LIQUID DEPTH (ft) (A-B): 12.08

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 7.3
F. THREE WELL VOLUMES (L) (E*3): 22

Parameter	Beginning	1	2	3	4	5
Time (min)	1047	1051	1055	1059	1104	
Depth to Water (ft)	30.56	30.56	30.55	30.55	30.55	
Purge Rate (L/min)	0.4	0.2	0.2	0.2	0.2	
Volume Purged (L)	1.6	2.4	3.2	4.0	4.8	
pH	5.91	5.89	5.86	5.84	5.82	
Temperature (°C)	11.53	12.18	12.97	13.44	14.01	
Conductivity (μmhos/cm)	99	99	97	98	100	
Dissolved Oxygen (mg/L)	11.32	11.26	11.17	11.13	11.03	
Turbidity (NTU)	3	3	3	3	3	
Eh (mv)	-125	-127	-124	-123	-117	

TOTAL QUANTITY OF WATER REMOVED (L): 6

SAMPLERS: RW, SC
SAMPLING TIME (START/END): 1110
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO3
SAMPLE BOTTLE IDs: BN-18-S1-MW240
SAMPLE PARAMETERS: metals VOC
COMMENTS AND OBSERVATIONS: ph check OK, containerized water

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 43
WELL I.D.: MW-2101
WELL CONDITION: good

PROJECT NUMBER: 2960047150
WELL LOCK STATUS: locked
WEATHER: Sunny, breezy, 50°

GAUGE DATE: 4-24-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 5.24

GAUGE TIME: 925
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-24-01
PURGE METHOD: Low-Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 934
FIELD PERSONNEL: SC, RW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 30.00
B. DEPTH TO WATER (ft): 11.13
C. LIQUID DEPTH (ft) (A-B): 18.87

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 11.4
F. THREE WELL VOLUMES (L) (E*3): 34.2

Parameter	Beginning	1	2	3	4	5
Time (min)	938	942	946	950	954	958
Depth to Water (ft)	11.15	11.44	11.44	11.44	11.44	11.44
Purge Rate (L/min)	0.5	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	2	2.8	3.6	4.4	5.2	6.0
pH	4.20	5.17	5.32	5.45	5.50	5.52
Temperature (°C)	10.30	10.77	11.78	12.94	13.29	13.33
Conductivity (μmhos/cm)	252	247	228	239	238	237
Dissolved Oxygen (mg/L)	5.19	4.88	4.85	4.83	4.81	4.80
Turbidity (NTU)	40	19	13	11	14	11
Eh (mv)	-145	-156	-153	-145	-145	-147

TOTAL QUANTITY OF WATER REMOVED (L): 9

SAMPLERS: SC RW
SAMPLING TIME (START/END): ~~1040~~ 1010
SAMPLING DATE: 4-24-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl, HNO_3
SAMPLE BOTTLE IDs: BN-18-51-MW2101 MS/MSD
SAMPLE PARAMETERS: Metals VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Sites 1+3	Project No.: 2960047	Date: 4-24-01
Well ID: MW-2101	Field Personnel: SC, RW	

Parameter	6	7	8	9	10	11
Time (min.)	1002	1006				
Depth to Water (ft)	11.44	11.44				
Purge Rate (L/min)	0.2	0.2				
Volume Purged (L)	6.8	7.6				
pH	5.53	5.54				
Temperature (°C)	13.46	13.64				
Conductivity (μmhos/cm)	241	243				
Dissolved Oxygen (mg/L)	4.79	4.76				
Turbidity (NTU)	11	11				
Eh (mv)	-148	-149				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW-105A
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny, 50

GAUGE DATE: 4-30-01
GAUGE TIME: 1010
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 3.17
WELL DIAMETER (in.): 2

PURGE DATE: —
PURGE TIME: —
PURGE METHOD: —
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End 0

WELL VOLUME

A. WELL DEPTH (ft): 46.87
B. DEPTH TO WATER (ft): 1.87
C. LIQUID DEPTH (ft) (A-B): 45
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	1026					
Depth to Water (ft)	1.87					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.97					
Temperature (°C)	8.09					
Conductivity (μmhos/cm)	62					
Dissolved Oxygen (mg/L)	9.80					
Turbidity (NTU)	—					
Eh (mv)	-182					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1015
SAMPLING DATE: 4-30-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS105A MS/MSD
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
Diffusion Sampler

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW 205
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: sunny, 50°

GAUGE DATE: 4-30-01
GAUGE TIME: 1029
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: toc
STICK UP/DOWN (ft): 1.94
WELL DIAMETER (in.): 2

PURGE DATE: 4-30-01
PURGE TIME: —
PURGE METHOD:
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 78.77
B. DEPTH TO WATER (ft): 23.07
C. LIQUID DEPTH (ft) (A-B): 55.70
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	1038					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	8.77					
Temperature (°C)	8.28					
Conductivity (μmhos/cm)	152					
Dissolved Oxygen (mg/L)	0.20 ~~0.03~~ SC					
Turbidity (NTU)	—					
Eh (mv)	269 ~~223~~ SC					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1030
SAMPLING DATE: 4-30-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS205 DS XD2
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
Diffusion Samples

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-207A
WELL CONDITION: good
PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 60

GAUGE DATE: 5-1-01
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.50
GAUGE TIME: 946
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 5-1-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
PURGE TIME: 949
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 73.27
B. DEPTH TO WATER (ft): artesian
C. LIQUID DEPTH (ft) (A-B): 73.27
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 44.3
F. THREE WELL VOLUMES (L) (E*3): 132.9

Parameter	Beginning	1	2	3	4	5
Time (min)	954	959	1009	1014	1019	1024
Depth to Water (ft)	artesian	artesian	artesian	artesian	artesian	artesian
Purge Rate (L/min)	1.4	1.4	1.4	1.4	1.4	1.4
Volume Purged (L)	7	14	28	35	42	49
pH	7.32	7.17	7.08	7.21	7.16	7.17
Temperature (°C)	8.84	8.91	8.93	9.02	9.05	9.07
Conductivity (μmhos/cm)	211	205	183	211	205	206
Dissolved Oxygen (mg/L)	1.77	1.98	3.39	1.72	1.88	1.86
Turbidity (NTU)	370	649	1104	593	445	366
Eh (mv)	5	8	18	7	3	2

TOTAL QUANTITY OF WATER REMOVED (L): 93

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1055
SAMPLING DATE: 5-1-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW207A BN-18-EP-MWXD3
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: at lowest flow rate possible

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 5-1-01
Well ID: MW-207A	Field Personnel: SC KB	

Parameter	6	7	8	9	10	11
Time (min.)	1029	1034	1039	1044	1049	1054
Depth to Water (ft)	artesian	artesian	artesian	artesian	artesian	artesian
Purge Rate (L/min)	1.4	1.4	1.4	1.4	1.4	1.4
Volume Purged (L)	56	63	70	77	84	91
pH	7.15	7.14	7.12	7.12	7.11	7.11
Temperature (°C)	9.07	9.09	9.10	9.10	9.10	9.11
Conductivity (μmhos/cm)	205	205	205	202	202	203
Dissolved Oxygen (mg/L)	1.89	1.91	1.97	2.00	2.00	2.01
Turbidity (NTU)	252	195	38	21	20	21
Eh (mv)	0	-1	-4	-4	-5	-6

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-224
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny 70°

GAUGE DATE: 5-2-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.55

GAUGE TIME: ~~14~~ 1350
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: ~~5-2-01~~ NA
PURGE METHOD: E NA
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: NA
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 46.75
B. DEPTH TO WATER (ft): 27.16
C. LIQUID DEPTH (ft) (A-B): 19.59

D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	1405					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	5.94					
Temperature (°C)	9.41					
Conductivity (μmhos/cm)	90					
Dissolved Oxygen (mg/L)	8.43					
Turbidity (NTU)	—					
Eh (mv)	-154					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1400
SAMPLING DATE: 5-2-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS224 MS/MSD
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
diffusion sampler

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-225A
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny 50°

GAUGE DATE: 4-27-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.81

GAUGE TIME: ~~1100~~ 1045
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-27-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1110
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 76.03
B. DEPTH TO WATER (ft): 18.50
C. LIQUID DEPTH (ft) (A-B): 57.53
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 34.8
F. THREE WELL VOLUMES (L) (E*3): 104.4

Parameter	Beginning	1	2	3	4	5
Time (min)	1115	1120	1125	1130	1135	1140
Depth to Water (ft)	18.97	19.00	19.00	19.00	19.00	1900
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	1.5	3	4.5	6	7.5	9
pH	4.93	5.79	5.94	6.04	6.12	6.15
Temperature (°C)	8.93	10.16	9.97	9.96	10.13	10.22
Conductivity (μmhos/cm)	127	133	134	134	134	135
Dissolved Oxygen (mg/L)	7.89	7.16	7.07	7.16	7.17	7.22
Turbidity (NTU)	1434	>2000	>2000	1484	1037	730
Eh (mv)	-291	-292	-295	-292	-292	-291

TOTAL QUANTITY OF WATER REMOVED (L): 23

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1225
SAMPLING DATE: 4-30-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW225A
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

water quality

Diffusion S 1050 ph 5.83 DO 5.77
M 1055 temp 7.47 Eh ~~8~~ -212
D 1100 Cond 141

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID: MW-22SA	Field Personnel: SC KB	

Parameter	6	7	8	9	10	11
Time (min.)	1145	1150	1155	1200	1205	~~13~~ 1210
Depth to Water (ft)	19.00	19.00	19.00	19.00	19.00	19.00
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	10.5	12	13.5	15	16.5	18
pH	6.18	6.20	6.21	6.21	6.20	6.20
Temperature (°C)	10.25	10.23	10.27	10.33	10.45	10.55
Conductivity (μmhos/cm)	137	132	125	127	131	132
Dissolved Oxygen (mg/L)	7.41	7.26	7.15	7.21	7.35	7.32
Turbidity (NTU)	457	428	325	234	168	132
Eh (mv)	-290	-291	-291	-289	-289	-289

Parameter	12	13	14	15	16	17
Time (min)	1215	1220				
Depth to Water (ft)	19.00	19.00				
Purge Rate (L/min)	0.3	0.3				
Volume Purged (L)	19.5	21				
pH	6.21	6.21				
Temperature (°C)	10.53	10.56				
Conductivity (μmhos/cm)	127	128				
Dissolved Oxygen (mg/L)	7.34	7.28				
Turbidity (NTU)	127	132				
Eh (mv)	-289	-289				

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW-229A
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny 70

GAUGE DATE: 5-2-01
GAUGE TIME: 1150
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.55
WELL DIAMETER (in.): 2

PURGE DATE: ~~5-2-01~~ NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 32.70
B. DEPTH TO WATER (ft): 12.86
C. LIQUID DEPTH (ft) (A-B): 19.84
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	1205					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	7.64					
Temperature (°C)	8.09					
Conductivity (μmhos/cm)	105					
Dissolved Oxygen (mg/L)	8.26					
Turbidity (NTU)	—					
Eh (mv)	-157					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1200
SAMPLING DATE: 5-2-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS 229A BN-18-EP-DS XD4
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: NE

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-230A
WELL CONDITION: good
PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: overcast, 50°

GAUGE DATE: 4-30-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.21
GAUGE TIME: 830
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-30-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
PURGE TIME: 900
FIELD PERSONNEL: SC KB
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 82.08
B. DEPTH TO WATER (ft): 14.81
C. LIQUID DEPTH (ft) (A-B): 67.27
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 41
F. THREE WELL VOLUMES (L) (E*3): 123

Parameter	Beginning	1	2	3	4	5
Time (min)	905	910	915	920	925	930
Depth to Water (ft)	14.84	14.91	15.04	15.05	15.05	15.05
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	4	5	6
pH	6.77	7.00	7.09	7.23	7.30	7.35
Temperature (°C)	7.52	8.12	8.64	9.02	9.13	9.22
Conductivity (μmhos/cm)	111	123	127	123	124	125
Dissolved Oxygen (mg/L)	~~9.55~~ 2.84	1.34	0.90	0.55	0.46	0.40
Turbidity (NTU)	932	>2000	1650	828	632	504
Eh (mv)	-295	-318	-325	-333	-337	-341

TOTAL QUANTITY OF WATER REMOVED (L): 13

SAMPLERS: SC, RW
SAMPLING TIME (START/END): 1005
SAMPLING DATE: 4-30-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW230A
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

BN-18-EP-DS230A-S 835 Water quality
M 840 ph 6.89 DO 1.10
D 845 temp 8.06 Eh 245
Cond 91

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: SJE Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID: MW-230A	Field Personnel: SC, KB	

Parameter	6	7	8	9	10	11
Time (min.)	935	940	945	950	955	1000
Depth to Water (ft)	15.06	15.06	15.06	15.06	15.06	15.06
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	7	8	9	10	11	12
pH	7.38	7.40	7.42	7.44	7.45	7.46
Temperature (°C)	9.33	9.36	9.40	9.47	9.52	9.52
Conductivity (μmhos/cm)	124	122	123	120	123	120
Dissolved Oxygen (mg/L)	0.34	0.33	0.36	0.30	0.27	0.27
Turbidity (NTU)	343	259	222	188	188	189
Eh (mv)	-345	-344	-342	-343	-344	-344

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	NASB-EP	PROJECT NUMBER:	29600.47
WELL I.D.:	MW-231A	WELL LOCK STATUS:	Locked
WELL CONDITION:	Good	WEATHER:	Sunny, ~90
GAUGE DATE:	5/1/01	GAUGE TIME:	0904
SOUNDING METHOD:	WCI	MEASUREMENT REF:	TOC- PVC
STICK UP/DOWN (ft):	up 2.65	WELL DIAMETER (in.):	2"
PURGE DATE:	5/1/01	PURGE TIME:	0935
PURGE METHOD:	sub pump	FIELD PERSONNEL:	RW/BA
AMBIENT AIR VOCs (ppm)	Start: 0 End: 0	WELL MOUTH VOCs (ppm):	Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):	~~n/a~~ 62.42	D. WELL VOLUME/FT (L):	~~n/a~~ 0.605
B. DEPTH TO WATER (ft):	20.90	E. WELL VOLUME (L) (C*D):	25
C. LIQUID DEPTH (ft) (A-B):	~~n/a~~ 41.52	F. THREE WELL VOLUMES (L) (E*3):	75

Parameter	Beginning	1	2	3	4	5
Time (min)	0936	0940	0945	0950	0955	1000
Depth to Water (ft)	20.94	–	–	21.02	–	–
Purge Rate (L/min)	0.25					
Volume Purged (L)	0	1.0	2.25	3.5	4.75	6.0
pH	4.73	6.01	6.34	6.39	6.41	6.45
Temperature (°C)	9.91	8.77	8.80	9.09	9.33	9.47
Conductivity (μmhos/cm)	81	69	68	63	62	62
Dissolved Oxygen (mg/L)	9.07	8.84	9.24	9.33	9.31	9.31
Turbidity (NTU)	40	102	73	59	87	67
Eh (mv)	242	226	204	201	188	188

TOTAL QUANTITY OF WATER REMOVED (L): 18.5

SAMPLERS:	RW/BA	SAMPLING TIME (START/END):	(S) (M) (D) 0915, 0917, 0920/1055
SAMPLING DATE:	5/1/01	DECONTAMINATION FLUIDS USED:	D-I
SAMPLE TYPE:	GRAB	SAMPLE PRESERVATIVES:	HCl
SAMPLE BOTTLE IDs:	BN-18-EP-DS231AS, MSD / BN-18-EP-MW231A, BN-18-EP-MWXDS		
SAMPLE PARAMETERS:	VOC		

COMMENTS AND OBSERVATIONS: Dup collected for low-flow sampling

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 5-1-01
Well ID: MW-731A	Field Personnel: RW BA	

Parameter	6	7	8	9	10	11
Time (min.)	1005	1010	1015	1020	1023	1027
Depth to Water (ft)	21.02	-	-	21.03	-	-
Purge Rate (L/min)	0.25	→				
Volume Purged (L)	7.25	8.5	9.75	11.0	11.75	12.75
pH	6.45	6.45	6.48	6.38	6.42	6.46
Temperature (°C)	9.63	9.68	9.75	9.72	9.68	9.75
Conductivity (μmhos/cm)	62	59	60	62	62	60
Dissolved Oxygen (mg/L)	9.33	9.32	9.25	9.33	9.39	9.42
Turbidity (NTU)	73	51	53	39	29	29
Eh (mv)	186	188	188	191	193	194

Parameter	12	13	14	15	16	POST DIFF SAMPLING 17
Time (min)	1030	1035	1040	1045	1050	0923
Depth to Water (ft)	-	21.05	-	21.05	-	20.98
Purge Rate (L/min)	0.25	→				-
Volume Purged (L)	13.5	14.75	16.0	17.25	18.5	-
pH	6.48	6.51	6.52	6.50	6.54	8.05
Temperature (°C)	9.75	9.71	9.77	9.73	9.86	7.52
Conductivity (μmhos/cm)	63	62	60	61	61	0.04
Dissolved Oxygen (mg/L)	9.42	9.41	9.39	9.43	9.34	9.67
Turbidity (NTU)	23	19	20	22	22	-
Eh (mv)	195	196	196	197	196	110

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-EP
WELL I.D.: MW-231B
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Sunny, ~75°

GAUGE DATE: 5/1/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): Up 3.00

GAUGE TIME: 1042
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/1/01
PURGE METHOD: Sub. pump
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1105
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: ____ End: ____

WELL VOLUME

A. WELL DEPTH (ft): ~~N/A~~ SC 57.86
B. DEPTH TO WATER (ft): 25.38 ~~32~~
C. LIQUID DEPTH (ft) (A-B): ~~N/A~~ SC 32.48

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): ~~N/A~~ 20
F. THREE WELL VOLUMES (L) (E*3): 60

Parameter	Beginning	1	2	3	4	5
Time (min)	1106	1111	1116	1121	1126	1131
Depth to Water (ft)	25.38	–	–	25.92	–	25.91
Purge Rate (L/min)	0.25	→				
Volume Purged (L)	0	1.25	2.5	3.75	5.0	6.25
pH	6.40	6.37	6.38	6.37	6.38	6.39
Temperature (°C)	10.83	10.67	10.89	10.71	10.97	11.07
Conductivity (μmhos/cm)	72	72	71	70	72	70
Dissolved Oxygen (mg/L)	11.01	10.81	10.87	10.83	10.88	10.85
Turbidity (NTU)	680	680	321	131	79	42
Eh (mv)	218	194	192	194	193	193

TOTAL QUANTITY OF WATER REMOVED (L): 9.5

SAMPLERS: RW/BA
SAMPLING TIME (START/END): (S) (M) (D) 1045, 1047, 1050 / 1150
SAMPLING DATE: 5/1/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-DS231BS, M, D / BN-18-EP-MW231B
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 5/1/01
Well ID: MW-231B	Field Personnel: BA, RW	

Parameter	6	7	8	9	10	11
Time (min.)	1136	1141	1144			
Depth to Water (ft)	–	–	–			
Purge Rate (L/min)	0.25	→	→			
Volume Purged (L)	7.5	8.75	9.5			
pH	6.39	6.36	6.37			
Temperature (°C)	11.10	11.08	11.07			
Conductivity (μmhos/cm)	73	72	72			
Dissolved Oxygen (mg/L)	10.83	10.89	10.88			
Turbidity (NTU)	48	47	58			
Eh (mv)	192	197	198			

Parameter	POST DIFF. SAMPLING ~~12~~	13	14	15	16	17
Time (min)	1057					
Depth to Water (ft)	25.36					
Purge Rate (L/min)	–					
Volume Purged (L)	–					
pH	7.39					
Temperature (°C)	7.85					
Conductivity (μmhos/cm)	0.048					
Dissolved Oxygen (mg/L)	10.92					
Turbidity (NTU)	–					
Eh (mv)	214					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-303
WELL CONDITION: good

PROJECT NUMBER: 29600 47
WELL LOCK STATUS: locked
WEATHER: Sunny, 70

GAUGE DATE: 5-3-01
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1310
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 5-3-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1330
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 71.62
B. DEPTH TO WATER (ft): 11.79
C. LIQUID DEPTH (ft) (A-B): 59.83

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 36
F. THREE WELL VOLUMES (L) (E*3): 108

Parameter	Beginning	1	2	3	4	5
Time (min)	1335	1340	1345	1350	1355	1400
Depth to Water (ft)	11.83	11.83	11.83	11.83	11.83	11.83
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	1.5	3	4.5	6	7.5	9
pH	7.69	7.81	7.86	7.89	7.89	7.89
Temperature (°C)	9.81	9.59	9.77	9.87	9.86	9.86
Conductivity (μmhos/cm)	216	221	225	226	225	225
Dissolved Oxygen (mg/L)	0.46	0.37	0.32	0.29	0.29	0.29
Turbidity (NTU)	125	117	86	47	47	48
Eh (mv)	-24	-31	-35	-36	-36	-36

TOTAL QUANTITY OF WATER REMOVED (L): 11

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1405
SAMPLING DATE: 5-3-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-8-EP-MW303
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

diffusion S 1315
M 1320
D 1325

water quality
ph 7.33 DO 0.90
temp 7.84 Eh -272
Cond 240

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-305
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 50°

GAUGE DATE: 4-30-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.70

GAUGE TIME: 1330
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4-30-01
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1350
FIELD PERSONNEL: SC KB
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 54.12
B. DEPTH TO WATER (ft): 12.35
C. LIQUID DEPTH (ft) (A-B): 41.77

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 25.3
F. THREE WELL VOLUMES (L) (E*3): 75.9

Parameter	Beginning	1	2	3	4	5
Time (min)	1355	1405	1410	1415	1420	1430
Depth to Water (ft)	13.55	13.71	13.92	14.07	14.09	14.10
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	3	4	5	6	8
pH	8.80	8.82	8.64	8.72	8.77	8.27
Temperature (°C)	8.84	8.77	~~8.26~~ 9.37	9.72	10.01	10.25
Conductivity (μmhos/cm)	188	188	188	187	187	186
Dissolved Oxygen (mg/L)	0.89	0.56	0.60	0.37	0.30	0.29
Turbidity (NTU)	962	1881	>2000	>200	>2000	>2000
Eh (mv)	-296	-297	-297	-299	-300	-290

TOTAL QUANTITY OF WATER REMOVED (L): 13

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1455
SAMPLING DATE: 4-30-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW305
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

Diffusion S 1335
M 1340
D 1345

Water quality
ph 8.63 DO 1.00
temp 8.00 Eh -271
Cond 127

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name:	Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID:	MW-305	Field Personnel:	SC KB

Parameter	6	7	8	9	10	11
Time (min.)	1435	1440	1445	1448	1451	
Depth to Water (ft)	14.14	14.17	14.20	14.24	14.27	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	9	10	11	11.6	12.2	
pH	8.60	8.65	8.70	8.72	8.73	
Temperature (°C)	10.45	10.47	10.59	10.69	10.72	
Conductivity (μmhos/cm)	186	185	186	185	185	
Dissolved Oxygen (mg/L)	0.26	0.26	0.25	0.25	0.24	
Turbidity (NTU)	1850	1842	~~18~~ SE 1500	1480	1499	
Eh (mv)	-295	-296	-298	-300	-299	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW-306
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny, 70

GAUGE DATE: 5-2-01
GAUGE TIME: 1420
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.35
WELL DIAMETER (in.): 2

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: KB SC
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 56.98
B. DEPTH TO WATER (ft): 18.89
C. LIQUID DEPTH (ft) (A-B): 38.09
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	1430					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.13					
Temperature (°C)	7.62					
Conductivity (μmhos/cm)	112					
Dissolved Oxygen (mg/L)	6.50					
Turbidity (NTU)	—					
Eh (mv)	-227					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1425
SAMPLING DATE: 5-2-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS 306
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
Duplicate Sample

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-EP
WELL I.D.: MW-308
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Overcast, ~60°

GAUGE DATE: 4/30/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): Up 2.44

GAUGE TIME: 1151
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/30/01
PURGE METHOD: Sub. pump
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1224
FIELD PERSONNEL: EW/BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~N/A~~ 72.85
B. DEPTH TO WATER (ft): 4.99
C. LIQUID DEPTH (ft) (A-B): ~~N/A~~ 67.86

D. WELL VOLUME/FT (L): ~~N/A~~ 0.605
E. WELL VOLUME (L) (C*D): 41
F. THREE WELL VOLUMES (L) (E*3): 123

Parameter	Beginning	1	2	3	4	5
Time (min)	1224	1229	1233	1238	1242	1245
Depth to Water (ft)	4.98	5.41	–	5.45	–	5.48
Purge Rate (L/min)	0.2	→				
Volume Purged (L)	0	1.0	1.8	2.8	3.6	4.2
pH	8.15	8.41	8.57	8.58	8.58	8.61
Temperature (°C)	12.74	9.91	9.73	9.80	9.69	9.66
Conductivity (μmhos/cm)	813	831	834	821	831	827
Dissolved Oxygen (mg/L)	12.29	5.01	2.02	1.01	0.79	0.81
Turbidity (NTU)	19	12	33	32	16	3
Eh (mv)	152	-14	-104	-143	-152	-157

TOTAL QUANTITY OF WATER REMOVED (L): 5.4

SAMPLERS: EW/BA
SAMPLING TIME (START/END): (S) (M) (D) 1155, 1158, 1200 / 1256
SAMPLING DATE: 4/30/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-DS308S, M, D / BN-18-EP-MW308
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID: MW-308	Field Personnel: BA, RW	

Parameter	6	7	8	9	10	11
Time (min.)	1248	1251				
Depth to Water (ft)	–	5.49				
Purge Rate (L/min)	0.2	0.2				
Volume Purged (L)	4.8	5.4				
pH	8.63	8.64				
Temperature (°C)	9.70	9.59				
Conductivity (μmhos/cm)	835	842				
Dissolved Oxygen (mg/L)	0.69	0.62				
Turbidity (NTU)	4	9				
Eh (mv)	-161	-162				

Parameter	POST DIFF. SAMPLING ~~12~~	13	14	15	16	17
Time (min)	1210					
Depth to Water (ft)	4.99					
Purge Rate (L/min)	–					
Volume Purged (L)	–					
pH	8.71					
Temperature (°C)	8.50					
Conductivity (μmhos/cm)	0.574					
Dissolved Oxygen (mg/L)	0.18					
Turbidity (NTU)	–					
Eh (mv)	27					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-EP
WELL I.D.: MW-309B
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Partly Sunny, ~65°

GAUGE DATE: 4/30/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): Up 2.42

GAUGE TIME: 1352
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/30/01
PURGE METHOD: Sub. pump
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1419
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~N/A~~ 59.43
B. DEPTH TO WATER (ft): Ø (ARTESIAN)
C. LIQUID DEPTH (ft) (A-B): ~~N/A~~ 59.43

D. WELL VOLUME/FT (L): ~~N/A~~ 0.605
E. WELL VOLUME (L) (C*D): 36
F. THREE WELL VOLUMES (L) (E*3): 108

Parameter	Beginning	1	2	3	4	5
Time (min)	1419	1424	1428	1432	1436	1440
Depth to Water (ft)	Ø	5.23	-	5.82	6.29	7.37
Purge Rate (L/min)	0.4	0.2				
Volume Purged (L)	0	2.0	2.8	3.6	4.4	5.2
pH	6.97	7.56	7.94	8.09	8.18	8.23
Temperature (°C)	9.82	9.47	9.39	9.43	9.14	9.07
Conductivity (μmhos/cm)	262	261	261	262	261	262
Dissolved Oxygen (mg/L)	0.94	0.78	0.69	0.67	0.68	0.72
Turbidity (NTU)	128	150	136	128	112	106
Eh (mv)	119	118	117	116	114	112

TOTAL QUANTITY OF WATER REMOVED (L): 6.6

SAMPLERS: RW/BA
SAMPLING TIME (START/END): (S) 1358, (M) 1400, (D) 1403/1455
SAMPLING DATE: 4/30/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-DS309BS, MSD / BN-18-EP-MW309B
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID: MW-309B	Field Personnel: RW BR	

Parameter	6	7	8	9	10	11
Time (min.)	1444	1447				
Depth to Water (ft)	8.86	8.97				
Purge Rate (L/min)	0.2	0.2				
Volume Purged (L)	6.0	6.6				
pH	8.27	8.29				
Temperature (°C)	9.19	9.19				
Conductivity (μmhos/cm)	261	268				
Dissolved Oxygen (mg/L)	0.72	0.76				
Turbidity (NTU)	106	106				
Eh (mv)	111	110				

POLT DIFF.

Parameter	SAMPLING	13	14	15	16	17
Time (min)	1411					
Depth to Water (ft)	∅					
Purge Rate (L/min)	–					
Volume Purged (L)	–					
pH	8.47					
Temperature (°C)	8.62					
Conductivity (μmhos/cm)	0.183					
Dissolved Oxygen (mg/L)	0.65					
Turbidity (NTU)	–					
Eh (mv)	74					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-311
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 60°

GAUGE DATE: 5-1-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.30

GAUGE TIME: 910
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 5- NA
PURGE METHOD: —
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: —
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 55.78
B. DEPTH TO WATER (ft): 14.97
C. LIQUID DEPTH (ft) (A-B): 40.81

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 25
F. THREE WELL VOLUMES (L) (E*3): 75

Parameter	Beginning	1	2	3	4	5
Time (min)	920					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	7.17					
Temperature (°C)	7.94					
Conductivity (μmhos/cm)	163					
Dissolved Oxygen (mg/L)	0.63					
Turbidity (NTU)	—					
Eh (mv)	-302					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 915

SAMPLING DATE: ~~Gr~~ 5-1-01
DECONTAMINATION FLUIDS USED: none

SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL

SAMPLE BOTTLE IDs: BN-18-EP-DS311 BN-18-EP-DSX06

SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW-313
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: sunny, 70°

GAUGE DATE: 5-2-01
GAUGE TIME: 910
SOUNDING METHOD: sbpe indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 3.35
WELL DIAMETER (in.): 2

PURGE DATE: 5-2-01
PURGE TIME: 930
PURGE METHOD: Low Flow
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 37.14
B. DEPTH TO WATER (ft): 8.23
C. LIQUID DEPTH (ft) (A-B): 28.91
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 17.5
F. THREE WELL VOLUMES (L) (E*3): 53

Parameter	Beginning	1	2	3	4	5
Time (min)	935	940	945	950	955	1000
Depth to Water (ft)	8.99	9.08	9.13	9.18	9.20	9.21
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	1.5	3	4.5	6	7.5	9
pH	7.20	7.57	7.70	7.73	7.73	7.72
Temperature (°C)	9.12	10.06	10.69	11.09	11.45	11.51
Conductivity (μmhos/cm)	215	269	281	284	280	274
Dissolved Oxygen (mg/L)	1.53	0.81	0.67	0.62	0.66	0.66
Turbidity (NTU)	268	250	237	228	223	222
Eh (mv)	6	-4	-8	-7	-8	-8

TOTAL QUANTITY OF WATER REMOVED (L): 16.5

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1025
SAMPLING DATE: 5-2-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW313
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: water quality

Dispersion S 915 ph 7.83 DO 0.79
M 920 temp 7.98 Eh 1
D 925 cond 486

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 5-2-01
Well ID: MW-313	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	1005	1010	1015	1020		
Depth to Water (ft)	9.21	9.21	9.22	9.22		
Purge Rate (L/min)	0.3	0.3	0.3	0.3		
Volume Purged (L)	10.5	12	13.5	15		
pH	7.69	7.67	7.67	7.67		
Temperature (°C)	11.66	11.72	11.75	11.81		
Conductivity (μmhos/cm)	~~268~~ 258	253	251	248		
Dissolved Oxygen (mg/L)	0.71	0.73	0.73	0.72		
Turbidity (NTU)	511	167	158	160		
Eh (mv)	-8	-8	-8	-7		

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-EP
WELL I.D.: MW-31B
WELL CONDITION: Good

PROJECT NUMBER: 29700.47
WELL LOCK STATUS: Locked
WEATHER: Sunny, ~75°

GAUGE DATE: 5/1/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): Up 2.57

GAUGE TIME: 1305
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/1/01
PURGE METHOD: Sub. pump
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1334
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~N/A~~ SC 25.14
B. DEPTH TO WATER (ft): 5.12
C. LIQUID DEPTH (ft) (A-B): ~~N/A~~ SC 20.02

D. WELL VOLUME/FT (L): 0.1605
E. WELL VOLUME (L) (C*D): ~~N/A~~ 12
F. THREE WELL VOLUMES (L) (E*3): 36

Parameter	Beginning	1	2	3	4	5
Time (min)	1335	1340	1345	1350	1355	1400
Depth to Water (ft)	5.45	-	5.45	-	-	5.46
Purge Rate (L/min)	0.2	→				
Volume Purged (L)	0	1.0	2.0	3.0	4.0	5.0
pH	7.17	7.10	6.86	6.78	6.71	6.67
Temperature (°C)	12.21	9.89	9.80	9.82	9.79	9.73
Conductivity (μmhos/cm)	82	104	70	69	71	76
Dissolved Oxygen (mg/L)	2.39	2.34	3.50	4.17	4.76	5.02
Turbidity (NTU)	251	273	126	79	57	36
Eh (mv)	184	151	152	152	152	150

TOTAL QUANTITY OF WATER REMOVED (L): 8.0

SAMPLERS: RW/BA
SAMPLING TIME (START/END): (S) 1315, (M) 1317, (D) 1320 / 1420
SAMPLING DATE: 5/1/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-DS31BS, M, SD / BN-18-EP-MW31B
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: MS/MSD for BN-18-EP-MW31B

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 5/1/01
Well ID: MW-318	Field Personnel: RW BA	

Parameter	6	7	8	9	10	11
Time (min.)	1405	1410	1415			
Depth to Water (ft)	–	–	5.48			
Purge Rate (L/min)	0.2	→	→			
Volume Purged (L)	6.0	7.0	8.0			
pH	6.65	6.64	6.66			
Temperature (°C)	9.54	9.57	9.56			
Conductivity (μmhos/cm)	78	77	79			
Dissolved Oxygen (mg/L)	5.15	5.24	5.19			
Turbidity (NTU)	28	22	24			
Eh (mv)	145	143	143			

Parameter	POST DIFF SAMPLING ~~12~~	13	14	15	16	17
Time (min)	1321					
Depth to Water (ft)	5.17					
Purge Rate (L/min)	–					
Volume Purged (L)	–					
pH	7.93					
Temperature (°C)	8.17					
Conductivity (μmhos/cm)	0.069					
Dissolved Oxygen (mg/L)	1.9					
Turbidity (NTU)	–					
Eh (mv)	-1					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW-319
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny 60

GAUGE DATE: 5-1-01
GAUGE TIME: 1115
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.30
WELL DIAMETER (in.): 2

PURGE DATE: —
PURGE TIME: —
PURGE METHOD: —
FIELD PERSONNEL: KB SC
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 72.44
B. DEPTH TO WATER (ft): 12.99
C. LIQUID DEPTH (ft) (A-B): 59.45
D. WELL VOLUME/FT (L): NAA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	1125					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.77					
Temperature (°C)	8.17					
Conductivity (μmhos/cm)	220					
Dissolved Oxygen (mg/L)	3.03					
Turbidity (NTU)	—					
Eh (mv)	-60					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1120
SAMPLING DATE: 5-1-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS319
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
diffusion sampler

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-EP
WELL I.D.: MW-330
WELL CONDITION: Good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: Locked
WEATHER: Overcast, ~50°

GAUGE DATE: 4/30/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): Up 2.7

GAUGE TIME: 1016
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/30/01
PURGE METHOD: Sub. Pump
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1048
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~N/A~~ 36.6
B. DEPTH TO WATER (ft): 5.11
C. LIQUID DEPTH (ft) (A-B): ~~N/A~~ 31.49
D. WELL VOLUME/FT (L): ~~N/A~~ 0.605
E. WELL VOLUME (L) (C*D): 19
F. THREE WELL VOLUMES (L) (E*3): 57

Parameter	Beginning	1	2	3	4	5
Time (min)	1049	1053	1058	1102	1106	1110
Depth to Water (ft)	5.19	–	6.73	6.79	–	6.83
Purge Rate (L/min)	0.2 →					
Volume Purged (L)	0.2	1.0	2.0	2.8	3.6	4.4
pH	4.53	5.07	6.65	6.98	7.17	7.31
Temperature (°C)	7.59	7.62	7.62	7.81	7.97	8.14
Conductivity (μmhos/cm)	142	185	152	138	123	120
Dissolved Oxygen (mg/L)	2.04	1.58	0.81	0.62	0.63	0.58
Turbidity (NTU)	41	47	48	49	50	46
Eh (mv)	200	191	174	167	161	154

TOTAL QUANTITY OF WATER REMOVED (L): 8.6

SAMPLERS: RW/BA
SAMPLING TIME (START/END): (S) (M) (D) 1025, 1026, 1027 / 1135
SAMPLING DATE: 4/30/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN18-EP-DS330S, M&D / BN18-EP-MW330
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: Noticed a drop in turbidity at 1114 greater than 10% - continued readings.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NASB-EP	Project No.: 2960047	Date: 4/30/01
Well ID: MW-330	Field Personnel: RW/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1113	1117	1120	1124	1128	1131
Depth to Water (ft)	–	6.87	–	6.88	–	6.89
Purge Rate (L/min)	0.2	→				
Volume Purged (L)	5.0	5.8	6.4	7.2	8.0	8.6
pH	7.36	7.42	7.46	7.48	7.48	7.52
Temperature (°C)	8.25	8.39	8.36	8.43	8.47	8.59
Conductivity (μmhos/cm)	129	130	137	129	122	124
Dissolved Oxygen (mg/L)	0.38	0.21	0.40	0.20	0.61	0.49
Turbidity (NTU)	42	32	21	16	21	18
Eh (mv)	148	144	141	135	133	128

Parameter	POST DIFFUSION ~~SAMPLING~~	13	14	15	16	17
Time (min)	1037					
Depth to Water (ft)	5.11					
Purge Rate (L/min)	–					
Volume Purged (L)	–					
pH	8.19					
Temperature (°C)	8.48					
Conductivity (μmhos/cm)	0.063					
Dissolved Oxygen (mg/L)	0.83					
Turbidity (NTU)	–					
Eh (mv)	150					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: MW-331
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny 60

GAUGE DATE: 5-1-01
GAUGE TIME: 1055
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2

PURGE DATE: —
PURGE TIME: —
PURGE METHOD: —
FIELD PERSONNEL: KB SC
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 33.4
B. DEPTH TO WATER (ft): 1.99
C. LIQUID DEPTH (ft) (A-B): 31.41
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1100
SAMPLING DATE: 5-1-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS331 BN-18-EP-DSXD7
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: diffusion sampler

unable to collect water quality parameters
YSI won't fit in well

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-332
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 60

GAUGE DATE: 5-1-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 920
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: —
PURGE METHOD: —
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: —
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 18.6
B. DEPTH TO WATER (ft): 8.90
C. LIQUID DEPTH (ft) (A-B): 9.7

D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	930					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.56					
Temperature (°C)	5.53					
Conductivity (μmhos/cm)	88					
Dissolved Oxygen (mg/L)	10.49					
Turbidity (NTU)	—					
Eh (mv)	-206					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 925
SAMPLING DATE: 5-1-01
DECONTAMINATION FLUIDS USED: None
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-DS~~01~~332 BN-18-EP-DSxD1
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:
Diffusion Sampler

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-333
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny 70°

GAUGE DATE: 5-2-01
SOUNDING METHOD: Slopeindicator
STICK UP/DOWN (ft):

GAUGE TIME: 1025
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 5-2-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1048
FIELD PERSONNEL: SC KB
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 40.0
B. DEPTH TO WATER (ft): 10.57
C. LIQUID DEPTH (ft) (A-B): 29.43

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 17.8
F. THREE WELL VOLUMES (L) (E*3): 53.4

Parameter	Beginning	1	2	3	4	5
Time (min)	1053	1058	1103	1108	1113	1118
Depth to Water (ft)	12.00	12.03	12.04	12.06	12.07	12.09
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	4	5	6
pH	7.81	7.78	7.76	7.75	7.75	7.76
Temperature (°C)	10.98	11.04	12.15	12.18	12.25	12.37
Conductivity (μmhos/cm)	236	217	210	206	200	197
Dissolved Oxygen (mg/L)	1.33	0.54	0.44	0.46	0.41	0.37
Turbidity (NTU)	1228	834	563	451	477	289
Eh (mv)	-53	-62	-66	-71	-73	-75

TOTAL QUANTITY OF WATER REMOVED (L): 12

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1145
SAMPLING DATE: 5-2-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW 333
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

S 1030 water quality
M 1040 ph 7.91 DO 0.99
D 1045 temp 8.05 Eh -190
cond 458

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume		Project No.: 2960047	Date: 5-2-01
Well ID: MW ~~[illegible]~~ 333		Field Personnel: SC	KB

Parameter	6	7	8	9	10	11
Time (min.)	1123	1128	1133	1138	1143	
Depth to Water (ft)	12.10	12.10	12.10	12.10	12.11	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	7	8	9	10	11	
pH	7.76	7.76	7.76	7.77	7.77	
Temperature (°C)	12.55	12.47	12.68	12.66	12.59	
Conductivity (μmhos/cm)	196	197	197	197	199	
Dissolved Oxygen (mg/L)	0.39	0.35	0.36	0.35	0.37	
Turbidity (NTU)	156	199	108	105	112	
Eh (mv)	-78	-78	-80	-81	-81	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME:	Eastern Plume	PROJECT NUMBER:	2960047
WELL I.D.:	MW-334	WELL LOCK STATUS:	locked
WELL CONDITION:	good	WEATHER:	Sunny, 70
GAUGE DATE:	5-3-01	GAUGE TIME:	900
SOUNDING METHOD:	Slope indicator	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):	2.83	WELL DIAMETER (in.):	2
PURGE DATE:	5-3-01	PURGE TIME:	918
PURGE METHOD:	Low Flow	FIELD PERSONNEL:	SC KB
AMBIENT AIR VOCs (ppm)	Start: 0 End: 0	WELL MOUTH VOCs (ppm):	Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):	47.80	D. WELL VOLUME/FT (L):	0.605
B. DEPTH TO WATER (ft):	10.91	E. WELL VOLUME (L) (C*D):	22
C. LIQUID DEPTH (ft) (A-B):	36.89	F. THREE WELL VOLUMES (L) (E*3):	66

Parameter	Beginning	1	2	3	4	5
Time (min)	923	928	933	938	943	948
Depth to Water (ft)	11.74	12.53	12.91	13.68	13.71	13.83
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	1.5	3	4.5	6	7.5	9
pH	7.85	7.91	7.95	8.07	8.10	8.11
Temperature (°C)	11.30	11.70	12.57	12.15	12.18	12.16
Conductivity (μmhos/cm)	161	160	162	156	161	162
Dissolved Oxygen (mg/L)	0.53	0.48	0.72	0.35	0.31	0.30
Turbidity (NTU)	>2000	>2000	1458	861	708	642
Eh (mv)	9	4	-9	-23	-27	-28

TOTAL QUANTITY OF WATER REMOVED (L): 18

SAMPLERS:	SC KB	SAMPLING TIME (START/END):	1015
SAMPLING DATE:	5-3-01	DECONTAMINATION FLUIDS USED:	none
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HCL
SAMPLE BOTTLE IDs:	BN18-EP-MW334		
SAMPLE PARAMETERS:	VOC		

COMMENTS AND OBSERVATIONS:

diffusion S 905
M 910
D 915

water quality
ph 7.48 DO - 0.47
temp 8.72 Eh -244
cond 167

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 5-3-01
Well ID: MW-334	Field Personnel: SC KB	

Parameter	6	7	8	9	10	11
Time (min.)	953	958	1003	1008	1013	
Depth to Water (ft)	13.83	13.83	13.83	13.83	13.83	
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	
Volume Purged (L)	10.5	12	13.5	15	16.5	
pH	8.13	8.13	8.13	8.13	8.11	
Temperature (°C)	12.14	12.32	12.23	12.32	12.33	
Conductivity (μmhos/cm)	159	164	162	168	168	
Dissolved Oxygen (mg/L)	0.25	0.23	0.21	0.21	0.19	
Turbidity (NTU)	557	483	457	413	426	
Eh (mv)	-31	-32	-31	-32	-33	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW1104
WELL CONDITION: good
PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: sunny, 60°

GAUGE DATE: 5-1-01
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.25
GAUGE TIME: 1305
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 5-1-01
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
PURGE TIME: 1328
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 27.55
B. DEPTH TO WATER (ft): 11.30
C. LIQUID DEPTH (ft) (A-B): 16.25
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 9.8
F. THREE WELL VOLUMES (L) (E*3): 29

Parameter	Beginning	1	2	3	4	5 ✓
Time (min)	1333	1338	1343	1348	1353	1358
Depth to Water (ft)	11.33	11.33	11.33	11.33	11.33	11.33
Purge Rate (L/min)	0.4	0.4	0.4	0.4	0.4	0.4
Volume Purged (L)	2	4	6	8	10	12
pH	5.98	5.91	5.87	5.83	5.82	5.83
Temperature (°C)	9.75	10.72	10.92	10.68	10.49	10.51
Conductivity (μmhos/cm)	141	144	154	162	153	156
Dissolved Oxygen (mg/L)	8.97	8.00	6.95	6.63	5.86	6.59
Turbidity (NTU)	891	817	789	395	348	264
Eh (mv)	34	37	37	38	37	33

TOTAL QUANTITY OF WATER REMOVED (L): 25

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1430
SAMPLING DATE: 5-1-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-MW1104
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: ✓ dumped cup

Duplicate BN-18-EP-DS11045 1310
M 1320
D 1325

water quality
pH 6.26 DO 9.44
temp 8.39 Eh -89
cond 75

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name:	Eastern Plume	Project No.: 2960047	Date: 5-1-01
Well ID:	MW-1104	Field Personnel:	SC KB

Parameter	6	7	8	9	10	11
Time (min.)	1403	1408	1413	1418	1421	1424
Depth to Water (ft)	11.33	11.33	11.33	11.33	11.33	11.33
Purge Rate (L/min)	0.4	0.4	0.4	0.4	0.4	0.4
Volume Purged (L)	14	16	18	20	21.2	22.4
pH	5.81	5.80	5.79	5.83	5.82	5.81
Temperature (°C)	10.33	10.56	10.61	10.68	10.75	10.74
Conductivity (μmhos/cm)	159	162	183	189	186	188
Dissolved Oxygen (mg/L)	4.55	4.21	4.11	3.90	3.71	3.80
Turbidity (NTU)	149	119	120	97	74	71
Eh (mv)	33	34	34	34	34	35

Parameter	12	13	14	15	16	17
Time (min)	1427					
Depth to Water (ft)	11.33					
Purge Rate (L/min)	0.4					
Volume Purged (L)	23.6					
pH	5.78					
Temperature (°C)	10.82					
Conductivity (μmhos/cm)	182					
Dissolved Oxygen (mg/L)	3.76					
Turbidity (NTU)	74					
Eh (mv)	35					

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: MW-NASB-212
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: sunny, 70°

GAUGE DATE: 5-1-01
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft): 2.96

GAUGE TIME: 835
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: ~~5-1~~ NA
PURGE METHOD: NA
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: —
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 64.3
B. DEPTH TO WATER (ft): 8.06
C. LIQUID DEPTH (ft) (A-B): 56.24
D. WELL VOLUME/FT (L): NA
E. WELL VOLUME (L) (C*D): NA
F. THREE WELL VOLUMES (L) (E*3): NA

Parameter	Beginning	1	2	3	4	5
Time (min)	855					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	7.07					
Temperature (°C)	8.09					
Conductivity (μmhos/cm)	326					
Dissolved Oxygen (mg/L)	1.20					
Turbidity (NTU)	—					
Eh (mv)	-125					

TOTAL QUANTITY OF WATER REMOVED (L): NA

SAMPLERS: SC KB
SAMPLING TIME (START/END): 840
SAMPLING DATE: 5-1-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP DS212 BN-18-EP-DSXD8
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: diffusion Sampler

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-EP
PROJECT NUMBER: 29600.47
WELL I.D.: P-106
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Sunny, ~70°

GAUGE DATE: 4/30/01
GAUGE TIME: 1525
SOUNDING METHOD: WL
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): Up 2.53
WELL DIAMETER (in.): 2"

PURGE DATE: 4/30/01
PURGE TIME: 1529
PURGE METHOD: Sub pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): ~~N/A~~ 72.4
B. DEPTH TO WATER (ft): 10.40 (FINISH)
C. LIQUID DEPTH (ft) (A-B): ~~N/A~~ 62.4
D. WELL VOLUME/FT (L): ~~N/A~~ 0.605
E. WELL VOLUME (L) (C*D): ~~N/A~~ 38
F. THREE WELL VOLUMES (L) (E*3): 114

Parameter	Beginning	1	2	3	4	5
Time (min)	1529	1534	1539	1544	1547	1550
Depth to Water (ft)	–	–	–	–	–	–
Purge Rate (L/min)	0.2					
Volume Purged (L)	0	1.0	2.0	3.0	3.6	4.2
pH	6.91	6.83	6.81	6.82	6.83	6.83
Temperature (°C)	9.30	8.98	8.92	8.97	8.93	8.93
Conductivity (μmhos/cm)	131	138	140	141	142	147
Dissolved Oxygen (mg/L)	5.32	4.44	4.31	4.17	4.15	4.13
Turbidity (NTU)	19	11	18	19	15	12
Eh (mv)	175	178	179	180	180	180

TOTAL QUANTITY OF WATER REMOVED (L): 7.4

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1610
SAMPLING DATE: 4/30/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-P106, BN-18-EP-PXD9
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: DUP collected

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID: R106	Field Personnel: RW BA	

Parameter	6	7	8	9	10	11
Time (min.)	1554	1557	1600	1603	1606	
Depth to Water (ft)	–	–	–	–	–	
Purge Rate (L/min)	0.2	→				
Volume Purged (L)	5.0	5.6	6.2	6.8	7.4	
pH	6.83	6.84	6.84	6.84	6.84	
Temperature (°C)	8.95	8.97	9.04	9.15	9.09	
Conductivity (μmhos/cm)	142	142	142	143	142	
Dissolved Oxygen (mg/L)	4.10	4.05	4.03	4.05	4.03	
Turbidity (NTU)	12	11	9	18	19	
Eh (mv)	181	182	181	182	181	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB - EP
PROJECT NUMBER: 29600.47
WELL I.D.: P-111
WELL LOCK STATUS: Locked
WELL CONDITION: Good
WEATHER: Overcast, 60°

GAUGE DATE: 4/30/01
GAUGE TIME: 0925
SOUNDING METHOD: WLI
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): Up
WELL DIAMETER (in.): 2"

PURGE DATE: 4/30/01
PURGE TIME: 0937
PURGE METHOD: Sub. pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 9.98
B. DEPTH TO WATER (ft): 5.97
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	0937	0942	0947	0951	0955	0958
Depth to Water (ft)	5.97	-	-	-	-	-
Purge Rate (L/min)	0.25	0.25	→			
Volume Purged (L)	0	1.25	2.5	3.5	4.5	5.25
pH	6.41	6.40	6.40	6.41	6.40	6.40
Temperature (°C)	4.83	4.65	4.43	4.33	4.30	4.31
Conductivity (μmhos/cm)	253	194	149	132	127	127
Dissolved Oxygen (mg/L)	1.91	1.55	1.19	1.08	0.99	0.97
Turbidity (NTU)	0	7	18	17	18	18
Eh (mv)	112	110	105	102	101	99

TOTAL QUANTITY OF WATER REMOVED (L): 5.25

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1005
SAMPLING DATE: 4/30/01
DECONTAMINATION FLUIDS USED: DoI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-P111
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: P-132
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny, 50°

GAUGE DATE: 4-30-01
GAUGE TIME: 1410
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2

PURGE DATE: 4-30-01
PURGE TIME: 1458
PURGE METHOD: Low Flow
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 32.46
B. DEPTH TO WATER (ft): 16.35 check
C. LIQUID DEPTH (ft) (A-B): 16.11
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 9.7
F. THREE WELL VOLUMES (L) (E*3): 29

Parameter	Beginning	1	2	3	4	5
Time (min)	1503	1508	1513	1518	1523	1528
Depth to Water (ft)	16.47	16.41	16.41	16.41	16.41	16.40
Purge Rate (L/min)	0.3	0.3	0.3	0.3	0.3	0.3
Volume Purged (L)	1.5	3	4.5	6	7.5	9
pH	5.90	6.00	6.09	6.09	6.13	6.15
Temperature (°C)	10.22	10.57	10.74	10.83	11.89	12.24
Conductivity (μmhos/cm)	29	28	31	30	30	30
Dissolved Oxygen (mg/L)	11.80	11.67	11.58	11.46	11.21	11.15
Turbidity (NTU)	1170	>2000	1751	1856	1240	1372
Eh (mv)	-274	-272	-277	-277	-277	-278

TOTAL QUANTITY OF WATER REMOVED (L): 15

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1545
SAMPLING DATE: 4-30-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-P132
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

diffusion S 1415
M 1420
D 1425

water quality
ph 7.94 DO 10.46
temp 7.65 Eh -268
cond 36

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: Eastern Plume	Project No.: 2960047	Date: 4-30-01
Well ID: P132	Field Personnel: SC KB	

Parameter	6	7	8	9	10	11
Time (min.)	1533	1538	1543			
Depth to Water (ft)	16.40	16.40	16.40			
Purge Rate (L/min)	0.3	0.3	0.3			
Volume Purged (L)	10.5	12	13.5			
pH	6.17	6.18	6.19			
Temperature (°C)	13.19	13.41	13.51			
Conductivity (μmhos/cm)	30	30	32			
Dissolved Oxygen (mg/L)	10.91	10.95	10.87			
Turbidity (NTU)	1020	1002	1030			
Eh (mv)	-279	-279	-280			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: East on Plume
PROJECT NUMBER: 2960047
WELL I.D.: EW-2A
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: Sunny 70

GAUGE DATE: 5-3-01
GAUGE TIME: 1020
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2

PURGE DATE: —
PURGE TIME: —
PURGE METHOD: —
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft):
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1035					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	7.07					
Temperature (°C)	11.36					
Conductivity (μmhos/cm)	313					
Dissolved Oxygen (mg/L)	8.87					
Turbidity (NTU)	111					
Eh (mv)	6					

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1030
SAMPLING DATE: 5-3-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP EW2A
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
PROJECT NUMBER: 2960047
WELL I.D.: EW-4
WELL LOCK STATUS: locked
WELL CONDITION: good
WEATHER: sunny, 30°

GAUGE DATE: 5-3-01
GAUGE TIME: 1040
SOUNDING METHOD: Slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft):
WELL DIAMETER (in.): 2

PURGE DATE: NA
PURGE TIME: NA
PURGE METHOD: NA
FIELD PERSONNEL: SC KB
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft):
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1050					
Depth to Water (ft)						
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.70					
Temperature (°C)	11.87					
Conductivity (μmhos/cm)	117					
Dissolved Oxygen (mg/L)	6.65					
Turbidity (NTU)	14					
Eh (mv)	38					

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1045
SAMPLING DATE: 5-3-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP EW4
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Eastern Plume
WELL I.D.: EW 5A
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: sunny 70

GAUGE DATE: 5-3-01
SOUNDING METHOD: sl bpe indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1105
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: NA
PURGE METHOD: NA
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: NA
FIELD PERSONNEL: KB SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft):
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1115					
Depth to Water (ft)						
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	7.34					
Temperature (°C)	11.43					
Conductivity (μmhos/cm)	103					
Dissolved Oxygen (mg/L)	8.30					
Turbidity (NTU)	47					
Eh (mv)	8					

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC KB
SAMPLING TIME (START/END): 1100
SAMPLING DATE: 5-3-01
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-18-EP-EWSA
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-GWETS
WELL I.D.: INFLUENT
WELL CONDITION: N/A

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: N/A
WEATHER:

GAUGE DATE: N/A
SOUNDING METHOD:
STICK UP/DOWN (ft):

GAUGE TIME:
MEASUREMENT REF: N/A
WELL DIAMETER (in.):

PURGE DATE: N/A
PURGE METHOD:
AMBIENT AIR VOCs (ppm) Start: _____ End: _____

PURGE TIME:
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft):
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1314					
Depth to Water (ft)	—					
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	6.60					
Temperature (°C)	11.17					
Conductivity (μmhos/cm)	218					
Dissolved Oxygen (mg/L)	5.83					
Turbidity (NTU)	15					
Eh (mv)	201					

TOTAL QUANTITY OF WATER REMOVED (L): _____

SAMPLERS: RW, BA
SAMPLING TIME (START/END): 1310
SAMPLING DATE: 5/3/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-TPINF
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB- GWETS
WELL I.D.: EFFLUENT
WELL CONDITION: N/A

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: N/A
WEATHER:

GAUGE DATE:
SOUNDING METHOD: N/A
STICK UP/DOWN (ft):

GAUGE TIME:
MEASUREMENT REF: N/A
WELL DIAMETER (in.):

PURGE DATE: N/A
PURGE METHOD:
AMBIENT AIR VOCs (ppm) Start: End:

PURGE TIME: N/A
FIELD PERSONNEL: RW/B
WELL MOUTH VOCs (ppm): Start: End:

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft):
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D): N/A
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1325					
Depth to Water (ft)	–					
Purge Rate (L/min)	–					
Volume Purged (L)	–					
pH	7.09					
Temperature (°C)	12.04					
Conductivity (μmhos/cm)	192					
Dissolved Oxygen (mg/L)	8.74					
Turbidity (NTU)	Ø					
Eh (mv)	174					

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: RW, BA
SAMPLING TIME (START/END): 1320
SAMPLING DATE: 5/3/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-18-EP-TPEFF / BN-18-EP-TPXD1
SAMPLE PARAMETERS: VOC
COMMENTS AND OBSERVATIONS: DUP & MS/MSD collected.

Appendix B.3

Field Record of Surface Water and Sediment Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: SW-4			Date: 4/26/01
Sampling Time: 1415	Start: 1413	End: 1418	Sample Team Members: KB, [illegible]

SURFACE WATER INFORMATION

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Water Quality Parameters
(✓) Temperature 12.05 C
(✓) Conductivity 126 µmhs/cm
(✓) ph 7.06 units
(✓) Dissolved oxygen 3.62 mg/L
(✓) Turbidity 12 NTU
(✓) Eh 334 mv

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID SW4D
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL HNO_3	1.5L	✓	BN-18-S1-SW4

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: SITES 1 & 3			Project Number: 29600.47
Sample Location ID: SW-7			Date: 4/26/01
Sampling Time: 1400	Start: 1358	End: 1402	Sample Team Members: KB, BL

SURFACE WATER INFORMATION

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(✓) Temperature 12.02 °C
(✓) Conductivity 126 µmhs/cm
(✓) ph 6.98 units
(✓) Dissolved oxygen 3.30 mg/L
(✓) Turibidity 25 NTU
(✓) Eh 370 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCl / HNO_3	1.5 L	✓	BN-18-S1-SW7

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: SW 8			Date: 4/26/01
Sampling Time: 1340	Start: 1338	End: 1343	Sample Team Members: KB, BA

SURFACE WATER INFORMATION

Type of Surface Water:
(✓) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(✓) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(✓) Temperature 12.90 °C
(✓) Conductivity 126 µmhs/cm
(✓) ph 6.84 units
(✓) Dissolved oxygen 3.55 mg/L
(✓) Turibidity 91 NTU
(✓) Eh 332 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(✓) No

Method Used:
( ) Winkler
(✓) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCl/HNO_3	1052	✓	BN-18-S1-SW8

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: SW 9			Date: 4/26/01
Sampling Time: 1320	Start: 1318	End: 1322	Sample Team Members: KB, BF

SURFACE WATER INFORMATION

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(✓) Temperature 12.97 °C
(✓) Conductivity 126 µmhs/cm
(✓) ph 6.98 units
(✓) Dissolved oxygen 6.15 mg/L
(✓) Turibidity 115 NTU
(✓) Eh 270 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water 0.5 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCl/HNO_3	1.5 L	✓	BN-18-S1-SW9

NOTES/SKETCH

Stream water running very turbid - grow/brown color

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN Plume			Project Number: 29600.47
Sample Location ID: SW-10			Date: 4/26/01
Sampling Time: 1100	Start: ~~1002~~ 1055	End: 1102	Sample Team Members: KB, RA

SURFACE WATER INFORMATION

Type of Surface Water:
(✓) Stream ( ) River
( ) Pond/Lake ( ) Seep

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

Equipment Used for Collection:
(✓) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Water Quality Parameters
(✓) Temperature 9.33 °C
(✓) Conductivity 115 µmhs/cm
(✓) ph 6.86 units
(✓) Dissolved oxygen 5.95 mg/L
(✓) Turibidity 2 NTU
(✓) Eh 296 mv

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
(✓) MS/MSD

Sample Location Sketch:
(✓) Yes
( ) No

Method Used:
( ) Winkler
(✓) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL	250ml	✓	BN-18-EP-SW10

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Eastern Plume			Project Number: 29600.47
Sample Location ID: SW-11			Date: 4/26/01
Sampling Time: 1035	Start: 1035	End: 1042	Sample Team Members: KB, [illegible]

SURFACE WATER INFORMATION

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(✓) Temperature 8.62 °C
(✓) Conductivity 1164 µmhs/cm
(✓) ph 6.81 units
(✓) Dissolved oxygen 6.35 mg/L
(✓) Turibidity 1 NTU
(✓) Eh 289 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water 0.5 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
	✓		✓ HCL	90ml	✓	BN-18-EP-SW11

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN Plume			Project Number: 29600.47
Sample Location ID: SW-12			Date: 4/26/01
Sampling Time: 0945	Start: 0945	End: 0950	Sample Team Members: KB, BA

SURFACE WATER INFORMATION

Type of Surface Water:
(X) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(✓) Temperature 8.28 °C
( ) Conductivity 102 µmhs/cm
( ) ph 7.43 units
( ) Dissolved oxygen 6.89 mg/L
( ) Turibidity 3 NTU
( ) Eh 366 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
	X		HCL ✓	90 ml	✓	BN-18-EP-SW12

NOTES/SKETCH

weather - clear, sun, warm / Stream clear

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN Plume			Project Number: 29600.47
Sample Location ID: SW-13			Date: 4/26/01
Sampling Time: 1145	Start: 1142	End: 1148	Sample Team Members: KB, RR

SURFACE WATER INFORMATION

Type of Surface Water:
(✓) Stream
( ) River
( ) Pond/Lake
( ) Seep

Equipment Used for Collection:
(✓) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters:
(✓) Temperature 12.24 °C
(✓) Conductivity 108 µmhs/cm
(✓) ph 6.64 units
(✓) Dissolved oxygen 4.22 mg/L
(✓) Turibidity 7 NTU
(✓) Eh 375 mv

Water Depth and Sample Location 1.5 (ft)

Depth of Sample from Top of Water .5 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID XD
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(✓) No

Method Used:
( ) Winkler
(✓) Probe

SEDIMENT INFORMATION

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL	90ml	✓	BN-18-EP-SW13

NOTES/SKETCH

weather sun, nice, warm stream clear

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN PLUME			Project Number: 29600.47
Sample Location ID: SW-14			Date: 4/26/01
Sampling Time: 1020	Start: 1020	End: 1025	Sample Team Members: KB, BA

SURFACE WATER INFORMATION

Type of Surface Water:
- [x] Stream
- ( ) River
- ( ) Pond/Lake
- ( ) Seep

Equipment Used for Collection:
- [x] None, Grab into Bottle
- ( ) Bomb Sampler
- ( ) Pump _____

Water Quality Parameters
- (✓) Temperature 10.97 °C
- (✓) Conductivity 142 µmhs/cm
- (✓) ph 6.86 units
- (✓) Dissolved oxygen 5.33 mg/L
- (✓) Turibidity 7 NTU
- (✓) Eh 300 mv

Water Depth and Sample Location 2 (ft)

Depth of Sample from Top of Water 0.5 (ft)

Decontamination Fluids Used:
- ( ) Isopropyl Alcohol
- ( ) ASTM Type II Water
- ( ) Deionized Water
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- [x] None

Velocity Measurements Obtained? [x] No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
- ( ) Yes
- ( ) No

Method Used:
- ( ) Winkler
- ( ) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
- ( ) Discrete
- ( ) Composite

Sediment Type:
- ( ) Clay
- ( ) Sand
- ( ) Organic
- ( ) Gravel

Equipment Used for Collection:
- ( ) Gravity Corer
- ( ) Stainless Steel Split Spoon
- ( ) Dredge
- ( ) Hand Spoon/Trowel
- ( ) Aluminum Pans
- ( ) Stainless Steel Bucket
- ( ) Stainless Steel Auger
- ( ) _____

Decontamination Fluids Used:
- ( ) Isopropyl Alcohol
- ( ) ASTM Type II Water
- ( ) Deionized Water
- ( ) Liquinox Solution
- ( ) Hexane
- ( ) HNO_3 Solution
- ( ) Potable Water
- ( ) None

Sample Observations:
- ( ) Odor _____
- ( ) Color _____
- ( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	X		✓ HCL	90ml	✓	BN-18-EP-SW14

NOTES/SKETCH

Appendix B.4

Field Record of Seep Sampling Forms

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1c 3			Project Number: 29600.47
Sample Location ID: Seep 1			Date: 4/26/01 / 4/27/01
Sampling Time: 1430	Start: 1428	End: 1433	Sample Team Members: ICB, RA / RW/RA

SURFACE WATER INFORMATION

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Water Depth and Sample Location .125 (ft)

Depth of Sample from Top of Water .25 (ft)

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Water Quality Parameters
(X) Temperature 11.24 °C
(X) Conductivity 463 µmhs/cm
(X) ph 6.41 units
(X) Dissolved oxygen 2.34 mg/L
(X) Turibidity 3 NTU
(X) Eh 301 mv

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

4/27/01

SEDIMENT INFORMATION Time - 1000 BA, RW

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
(X) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
(X) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
~~(X) None~~ RA

Sample Observations:
(X) Odor Organic
(X) Color GRAY / Brown
(X) VOC, % solids, metals, Methanol - 8313, 8314, 8320
Na_2SO_4 - 8W400 8395 8399
8W401 8396
8W402 8397
8394 8398

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
(X) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL / HNO_3	1.5L	✓	BN-18-S1-LT1
✓		✓	✓ Na_2SO_4 / methanol	.5 Kg	✓	

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: Seep 3			Date: 4/26/01 / 4/27/01
Sampling Time:	Start:	End:	Sample Team Members: KB, BA / BA, RW

4/26/01 *SURFACE WATER INFORMATION* DRY AT Seep - No Collection

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Water Depth and Sample Location _____ (ft)

Depth of Sample from Top of Water _____ (ft)

Equipment Used for Collection:
( ) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Water Quality Parameters
( ) Temperature _____ °C
( ) Conductivity _____ µmhs/cm
( ) ph _____ units
( ) Dissolved oxygen _____ mg/L
( ) Turibidity _____ NTU
( ) Eh _____ mv

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

4/27/01 *SEDIMENT INFORMATION* Sample Time

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
(X) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
(X) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
~~(X) None~~ BA

Sample Observations:
(X) Odor Slight Organic Odor
(X) Color iron Staining (rust) Orange Brown -
( ) _____ Methanol 8309

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD Na_2SO_4 - 8388, 8389, 8390

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓ - DRY						
✓		✓	Na_2SO_4 / Methanol	.5 Kg	✓	BN-18-S1-

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Sites 1 & 3			Project Number: 29600.47
Sample Location ID: Seep 4			Date: water 4/26/01 / sed - 4/27/01
Sampling Time: 1440	Start: 1435	End: 1450	Sample Team Members: KB, BA / RW, BA

SURFACE WATER INFORMATION 4/26

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Water Depth and Sample Location .25 (ft)

Depth of Sample from Top of Water .25 (ft)

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Water Quality Parameters
(X) Temperature 6.96 °C
(X) Conductivity 479 µmhs/cm
(X) ph 6.79 units
(X) Dissolved oxygen 4.37 mg/L
(X) Turibidity 5 NTU
(X) Eh 310 mv

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

4/27/01

SEDIMENT INFORMATION

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
(X) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
(X) Odor Slight organic
(X) Color orange brown (iron stains)
( ) _____

Methane - 8307

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Na_2SO_4 8391
8392
8393

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL, HNO_3	1.5 L	✓	BN-18-S1-
✓		✓	✓ Na_2SO_4 methane	.5 Kg	✓	BN-18-S1-

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 1e 3			Project Number: 29600.47
Sample Location ID: Seep 5			Date: water 4/26/01 / sed 4/27/01
Sampling Time: 1510	Start: 1500	End: 1520	Sample Team Members: KB, BA / BA RW

4/26 *SURFACE WATER INFORMATION*

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(X) Temperature 19.21 °C (Full sun)
(X) Conductivity 276 µmhs/cm
(X) ph 6.52 units
(X) Dissolved oxygen 3.53 mg/L
(X) Turibidity 33 NTU
(X) Eh 210 mv

Water Depth and Sample Location .25 (ft)

Depth of Sample from Top of Water .25 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

4/27 *SEDIMENT INFORMATION* Samp @ 1115

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
(X) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
(X) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None RW

Sample Observations:
(X) Odor Organic
(X) Color Olive / Brown (Iron Oxide Staining)
(X) Sheen (organic) on surface.

methane - 8314
Na_2SO_4 - 8381
8384

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL, HNO_3	1.5 L	✓	BN-18-51 -
✓		✓	Na_2SO_4 methanol	.5 Ks	✓	BN-18-51 -

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 1&3			Project Number: 29600.47
Sample Location ID: Seep 9			Date: water 4/26/01 / sed 4/27/01
Sampling Time: 1500	Start: 1457	End: 1505	Sample Team Members: KB, BA / RW, BA

4/26 *SURFACE WATER INFORMATION*

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Water Depth and Sample Location .25 (ft)

Depth of Sample from Top of Water .25 (ft)

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Water Quality Parameters (open sum)
(X) Temperature 20.93 °C
(X) Conductivity 230 µmhs/cm
(X) ph 6.44 units
(X) Dissolved oxygen 7.12 mg/L
(X) Turibidity 72 NTU
(X) Eh 248 mv

Velocity Measurements Obtained? ( ) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
( ) No

Method Used:
( ) Winkler
( ) Probe

4/27 *SEDIMENT INFORMATION* Sample @ 1130

Type of Sample Collected:
(X) Discrete
( ) Composite

Sediment Type:
( ) Clay
(X) Sand
(X) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
(X) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
(X) Isopropyl Alcohol
( ) ASTM Type II Water
(X) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Sample Observations:
(X) Odor organic
(X) Color Brown rich silt (iron oxide red)
( ) _____

Field QC Data: (X) Field Duplicate Collected
Duplicate ID _____

( ) MS/MSD

methanol - 8390 / 8315 (Dup)
Na_2SO_4 - 8385 8379
8386 8386
8387 8381

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL, HNO_3	1.5 L	✓	BN-18-S1
✓		✓	Na_2SO_4, Methanol	.5 Ks	✓	BN-18-S1

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN PLUME			Project Number: 29600.47
Sample Location ID: Seep 10			Date: 4/26/01
Sampling Time: 1105	Start: 1103	End: 1107	Sample Team Members: KB, BA

SURFACE WATER INFORMATION

Type of Surface Water:
( ) Stream ( ) River
( ) Pond/Lake (X) Seep

Equipment Used for Collection:
(X) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(X) Temperature 5.88 °C
(X) Conductivity 72 µmhs/cm
(X) ph 6.19 units
(X) Dissolved oxygen 4.72 mg/L
(X) Turibidity 0 NTU
(X) Eh 304 mv

Water Depth and Sample Location .25 (ft)

Depth of Sample from Top of Water .25 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(X) None

Velocity Measurements Obtained? (X) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(X) No

Method Used:
( ) Winkler
(X) Probe

SEDIMENT INFORMATION No Sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL	90ml	✓	BN-15-SEEP10

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: EASTERN PLUME			Project Number: 29600.47
Sample Location ID: Seep 11			Date: 4/26/01
Sampling Time: 1120	Start: 1118	End: 1124	Sample Team Members: KB, BH

SURFACE WATER INFORMATION

Type of Surface Water:
(✓) Stream ( ) River
( ) Pond/Lake ( ) Seep

Equipment Used for Collection:
(✓) None, Grab into Bottle
( ) Bomb Sampler
( ) Pump _____

Water Quality Parameters
(✓) Temperature 8.53 °C
(✓) Conductivity 46 µmhs/cm
(✓) ph 6.05 units
(✓) Dissolved oxygen 7.53 mg/L
(✓) Turibidity 2 NTU
(✓) Eh 331 mv

Water Depth and Sample Location .25 (ft)

Depth of Sample from Top of Water .25 (ft)

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
(✓) None

Velocity Measurements Obtained? (✓) No ( ) Yes, See Flow Measurement Data Record _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

Sample Location Sketch:
( ) Yes
(✓) No

Method Used:
( ) Winkler
(✓) Probe

SEDIMENT INFORMATION No sediment

Type of Sample Collected:
( ) Discrete
( ) Composite

Sediment Type:
( ) Clay
( ) Sand
( ) Organic
( ) Gravel

Equipment Used for Collection:
( ) Gravity Corer
( ) Stainless Steel Split Spoon
( ) Dredge
( ) Hand Spoon/Trowel
( ) Aluminum Pans
( ) Stainless Steel Bucket
( ) Stainless Steel Auger
( ) _____

Decontamination Fluids Used:
( ) Isopropyl Alcohol
( ) ASTM Type II Water
( ) Deionized Water
( ) Liquinox Solution
( ) Hexane
( ) HNO_3 Solution
( ) Potable Water
( ) None

Sample Observations:
( ) Odor _____
( ) Color _____
( ) _____

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
( ) MS/MSD

SAMPLES COLLECTED

Check if Required at this Location	Matrix: Surface Water	Matrix: Sediment	Check if Preserved with Acid/Base	Volume Required	Check if Sample Collected	Sample Bottle IDs
✓	✓		✓ HCL	90ml	✓	BN-18-EP-Seep 11

NOTES/SKETCH

Appendix C

Analytical Data Quality Review

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APPENDIX C
ANALYTICAL DATA QUALITY REVIEW

C.1 INTRODUCTION

This project utilized both field and analytical laboratory quality control measures to ensure that the data quality objectives presented in the project-specific Quality Assurance Project Plan (QAPP) (EA 2000)[1] were met.

The sampling program consisted of 110 aqueous samples (of which 13 were field duplicates) (ground-water, surface water, leachate seep, and aqueous diffusion samples) collected from Sites 1 and 3 and Eastern Plume, and 6 sediment samples (of which 1 was a field duplicate) collected from Sites 1 and 3. For the combined analyses for these sites, the laboratory was provided with 1 sediment and 9 aqueous sample delivery groups (SDGs) which included 3 rinsate blanks, 5 trip blanks, and 2 source water blanks. Field sample duplicates and source water, equipment rinsate, and trip blanks were collected at the frequency required by the QAPP.

Analytical quality control was reviewed for compliance against data quality objectives established for precision and accuracy for each sample and analysis type, including field quality control blanks (i.e., trip blank) and field sample duplication. Analytical precision was based upon the mean relative percent difference (RPD) of the matrix spike/matrix spike duplicates (MS/MSD) for organic analysis and the RPD of the laboratory duplicates for inorganic analysis. Accuracy was based upon the reported spike recoveries for the laboratory control standard (LCS), MS/MSD and system monitoring compound (SMC) recoveries (for organic analysis), and LCS and MS recoveries (for inorganic analysis).

The ability of the laboratory to extract compounds is confirmed by the recoveries of the LCS. MS/MSD and SMC recoveries measure the effect of the sample matrix on sample preparation and measurement methodology. Known quantities of target compounds are spiked into the sample matrix for the MS/MSD, and recoveries are used to measure potential bias due to matrix effects. SMCs, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds, which are then used as indicators for all of the analytes. The accuracy of the LCS spike recoveries is used in conjunction with the MS/MSD when evaluating organic analyses.

Data completeness was quantified by reviewing the number of usable results to the number of results reported. Reported field sample completeness was quantified by comparing the number of samples specified in the Final Long-Term Monitoring Plan (LTMP) (EA 2000) to the number of samples collected during Monitoring Event 18.

1. EA Engineering, Science, and Technology. 2000. Final Long-Term Monitoring Plan (including Quality Assurance Project Plan) for Sites 1 and 3 and Eastern Plume, Naval Air Station, Brunswick, Maine. February.

For clarity, the following terms are defined for use throughout Appendix C:

- ***Instrument Detection Limit (IDL)***—Defined as the lowest concentration that can be determined to be statistically different from instrument background noise (instrument blank).

- ***Method Detection Limit***—Refers to the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix. The method detection limits for soil and aqueous media are summarized in Appendix C.1.

- ***Contract Required Detection Limit/Contract Required Quantitation Limit (CRDL/CRQL)***—Refers to the minimum level of detection acceptable under the contract Statement of Work in order to ensure regulatory compliance. This terminology is widely accepted in the industry as defined by the U.S. Environmental Protection Agency (EPA) contract laboratory protocols and is a standard list of inorganic analyte concentrations and organic compound concentrations on which laboratory flags and data validation qualifiers are based. These published concentrations are meant to be above the laboratory IDLs in order to ensure a level of confidence. The published CRDLs/CRQLs are specific to the Contract Laboratory Program methodology but are often used throughout industry methods. The data user should be aware that stated CRDLs/CRQLs are generic for a method and are affected for each sample by sample size, concentration, percent solids, and dilution factors.

- ***Practical Quantitation Limit***—Defined as the lowest level that can be reasonably achieved within specified units of precision and accuracy during routine laboratory operating conditions.

The following sections summarize the results of this program:

Data Quality Review		Holding Time	Field/Method Blank Contamination	Precision		Accuracy			Completeness	
				Laboratory	Field	SMC	MS/MSD	LCS	Analytical	Field
Aqueous	VOC	✓	✓B	✓J	✓J	✓J	✓	✓J	100%	100%
	Metals	✓	✓	✓J	✓	NA	✓	✓J	100%	100%
Sediment	VOC	✓	✓B	✓J	✓J	✓	✓	✓	100%	100%
	Metals	✓	✓	✓	✓	NA	✓	✓J	100%	100%

NOTE: VOC = Volatile organic compounds.
✓ = The data are usable as reported based on the data quality review of this quality measurement.
✓B = The data have been affected by field blank/laboratory contamination; false-positives may exist.
✓J = The data are usable, however, some analyte concentrations should be considered estimates of their true concentrations.
NA = The quality measurement does not apply to this matrix or analytical methodology.

All volatile organic compound (VOCs) and metals data for Sites 1 and 3 and Eastern Plume are usable as reported based on the accuracy and precision review provided herein. Minor sample biases are identified and a detailed description of field/laboratory blank contamination (Section C.6), precision issues (Sections C.3 and C.7), and accuracy issues (Section C.4) are provided below.

C.1.1 Field Sampling Program Quality Control

Field sampling quality control was acceptable and conducted according to the Final QAPP (EA 2000). A field quality control duplicate sample was collected for each matrix (i.e., sediment and water) and analyzed for the same parameters as the environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was monitored by trip blanks which were shipped with each sample cooler containing aqueous samples. The trip blanks were analyzed for VOCs by EPA SW-846, Method 8260B. To document the effectiveness of decontamination protocols, rinsate blank samples were collected by running de-ionized water through non-dedicated sampling equipment into the appropriate sample containers and analyzing for the same parameters as the environmental samples. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination process. The source water blanks were also analyzed for the same parameters as the environmental samples.

C.1.2 Laboratory Analytical Quality Control Program

The precision and accuracy objectives and reporting requirements identified in the Final LTMP were met. Ground-water, surface water, leachate seep, and leachate seep sediment samples collected at Sites 1 and 3 were analyzed for Target Compound List VOCs by EPA Method 8260B; and Target Analyte List elements, including metals by inductively coupled plasma (EPA Method 6010A) and mercury by cold vapor atomic adsorption (EPA Method 7471A/7470M[2]). Arsenic, selenium, thallium, and chromium were analyzed by inductively coupled plasma (EPA Method 6010) rather than graphite furnace atomic adsorption (EPA 7000 series methods) as specified in the Final LTMP (EA 2000).

Ground-water, aqueous diffusion, leachate seep, and surface water samples collected at Eastern Plume were analyzed for Target Compound List VOCs by EPA Method 8260B. The precision and accuracy objectives and reporting requirements identified in the LTMP were met. The quality control measures specified in the SW-846 methodology (MS/MSD, SMC, LCS, and laboratory duplicates), as well as those in the QAPP (EA 2000), were used by the laboratory to establish proper analytical quality control. The range of results for the data quality objective parameters is discussed for each sample matrix in the following sections.

C.2 SAMPLE HOLDING TIMES

The holding times were met for all methods and sample matrixes; all data are usable as reported. Holding times (defined as from date of sample collection to date of sample preparation/analyses) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods.

2. To use a microwave digestion versus water bath.

C.3 PRECISION

C.3.1 Volatile Organic Compounds

The surface water, monitoring well, combined effluent, leachate seep sediment, and aqueous diffusion sample results are usable as reported based on precision criteria. Forty VOCs were used to qualify the MS/MSD RPDs. The control limits identified in the QAPP were used to evaluate the data. MS/MSD sets were performed on Samples MW-2101, LT-1, and SW-9 from Sites 1 and 3; and MW-225A, MW-105A (deep), SW-10, MW-318, MW-224 (mid), MW-231A (deep), and combined effluent from Eastern Plume. There were no MS/MSD analyses for leachate seep designated for Eastern Plume and no leachate seep designated for Sites 1 and 3, therefore, leachate seep samples were not evaluated for analytical precision at the sites previously mentioned.

The monitoring well sample MS/MSD RPDs (from Sites 1 and 3) met acceptance criteria in Sample MW-2101 with the exception of the following: 1,1,1-trichloroethane (26 percent), carbon disulfide (24 percent), carbon tetrachloride (150 percent), 1,1-dichloroethene (27 percent), trichloroethene (24 percent), bromomethane (22 percent), tetrachloroethene (25 percent), vinyl chloride (28 percent), ethylbenzene (21 percent), and chloroethane (22 percent). The positive results for 1,1,1-trichloroethane, trichloroethene, and tetrachloroethene in Sample MW-202A and the positive result for vinyl chloride in Sample MW-217B should be considered estimated with a low bias. The results for carbon disulfide, carbon tetrachloride, 1,1-dichloroethene, bromomethane, ethylbenzene, and chloroethane in Sample MW-2101 suggest potential biases for these compounds. However, since these compounds were not detected in the monitoring well samples, the data are usable as reported.

The monitoring well sample MS/MSD RPDs (from Eastern Plume) met acceptance criteria in Sample MW-1104 with the exception of the following: bromoform (27 percent), acetone (30 percent), 4-methyl-2-pentanone (35 percent), 2-hexanone (36 percent), 2-butanone (35 percent), 1,1,2-trichloroethene (27 percent), 1,1,2,2-tetrachloroethane (29 percent), *trans*-1,3-dichloropropene (25 percent), dibromochloromethane (23 percent), and *cis*-1,3-dichloropropene (23 percent). The MS and MSD recoveries for bromoform, acetone, 4-methyl-2-pentanone, 1,1,2,2-tetrachloroethane, *trans*-1,3-dichloropropene, dibromochloromethane, and *cis*-1,3-dichloropropene were within the established control limits, therefore, usability of the data is not affected and no actions are required. The results for 2-hexanone and 1,1,2-trichloroethane suggest potential biases for these compounds, however, since these compounds were not detected in the monitoring well samples, the data are usable as reported. The positive results for 2-butanone in Samples MW-311 (deep), MW-311 DUP (deep), MW-332 (mid), MW-332 DUP (mid), MW-331 (mid), and MW-319 (deep) should be considered estimated with a high bias.

The leachate seep sediment MS/MSD RPDs (from Sites 1 and 3) met acceptance criteria in Sample LT-1 with the exception of the following: 1,4-dichlorobenzene (45 percent), acetone (31 percent), 1,3-dichlorobenzene (39 percent), 1,2-dichlorobenzene (36 percent), and 1,1,2,2-tetrachloroethane (56 percent). The MS and MSD recoveries for 1,3-dichlorobenzene and

1,2 dichlorobenzene were within established control limits, therefore, the data are usable as reported. The result for 1,1,2,2-tetrachloroethane suggests a potential high bias for this compound, however, since this compound was not detected in the leachate seep sediment samples, the data are usable as reported. The positive results for 1,4-dichlorobenzene in Samples LT-4, LT-9, LT-9 DUP, and the re-analysis of LT-9 DUP should be considered estimated with a low bias. The positive results for acetone in Samples LT-3, LT-4, LT-5, LT-9, LT-9 DUP, and the re-analysis of LT-9 DUP should be considered estimated with a low bias. The data user should note that the results for acetone in Sample LT-1 should be considered false-positive due to rinsate blank contamination and, therefore, the precision criteria would not apply (see Section C.6 for discussion).

The surface water sample MS/MSD RPDs (from Sites 1 and 3) met acceptance criteria, therefore, the analytical precision was determined to be acceptable and the monitoring well VOC data are usable as reported based on the review of laboratory precision.

The surface water sample MS/MSD RPDs (from Eastern Plume) met acceptance criteria, therefore, the analytical precision was determined to be acceptable and the monitoring well VOC data are usable as reported based on the review of laboratory precision.

The ground-water sample MS/MSD RPDs (from Eastern Plume) met acceptance criteria, therefore, the analytical precision was determined to be acceptable and the monitoring well VOC data are usable as reported based on the review of laboratory precision.

The aqueous diffusion sample MS/MSD RPDs (from Eastern Plume) met acceptance criteria, therefore, the analytical precision was determined to be acceptable and the monitoring well VOC data are usable as reported based on the review of laboratory precision.

C.3.2 Target Analyte List Metals

The aqueous laboratory duplicate precision measurements were within the laboratory control limits, therefore, the aqueous metals data are considered usable based on the review of analytical precision. All 23 analytes were used to quantify the laboratory duplicate RPDs. There were no control limits identified in the QAPP for aqueous duplicate RPDs for Target Analyte List metals, therefore, the laboratory control limits were used. The laboratory replicated the analyses of Samples LT-1, MW-2101, and SW-9. The sediment laboratory duplicate precision measurements were within the laboratory control limits with the exception of mercury (25 percent). The results for mercury in 4 leachate seep sediment samples (LT-1, LT-4, LT-9, and LT-9 DUP) should be considered estimated.

C.4 ACCURACY

C.4.1 Volatile Organic Compounds

The surface water, monitoring well, combined effluent, seep leachate, aqueous diffusion, and seep sediment results are usable as reported. Four SMCs were used to measure the ability of the laboratory to purge the target analytes from the environmental samples. The SMC control limits for the aqueous and sediment samples identified in the QAPP and reported by the laboratory were identical for all four SMCs.

The aqueous sample SMC recoveries were within the QAPP control limits with the exception of toluene-d8 in Samples P-106 (77 percent) and P-106 DUP (77 percent), p-bromofluorobenzene in Samples P-106 (66 percent) and P-106 DUP (65 percent), and dibromofluoromethane in Sample P-106 DUP (131 percent). The results for all the VOCs in Sample P-106 DUP (with the exception of acetone, 1,1-dichloroethene, 1,1,1-trichloroethane, and trichloroethene) and in Sample P-106 (with the exception of 1,1,1-trichloroethane) should be considered to be estimated with a low bias due to the SMC recoveries.

The sediment SMC recoveries were within the QAPP control limits with the exception of p-bromofluorobenzene in Samples LT-9 DUP (50 percent). The laboratory appropriately repeated the analysis for these samples. The re-analysis results indicate similar results for the SMC. The re-analysis results for LT-9 DUP should be considered the most usable and, therefore, the data are included in the summary tables. The data user should be aware that the low recoveries of this SMC indicate low analytical bias due to sample matrix, however, the sample data should still be considered usable.

Five VOCs were used to quantify the MS/MSD recoveries against QAPP control limits. The recovery limits identified in the QAPP were the same as those reported by the laboratory. The data reviewer used the QAPP limits to evaluate the data. The samples chosen for MS/MSD are identified in Section C.3.1.

The monitoring well sample MS/MSD recoveries (from Sites 1 and 3) were within the established control limits in Sample MW-2101 with the exception of 1,4-dichlorobenzene (54 and 48 percent), 1,1,1-trichloroethane (34 and 26 percent), bromodichloromethane (57 percent), benzene (47 and 40 percent), carbon disulfide (34 and 27 percent), carbon tetrachloride (31 and 3.9 percent), 1,3-dichlorobenzene (52 and 45 percent), 1,2-dichloropropane (56 and 50 percent), 1,2-dichlorobenzene (54 percent), 1,1-dichloroethene (31 and 23 percent), 1,1-dichloroethane (48 and 40 percent), styrene (54 and 49 percent), trichloroethene (42 and 33 percent), total xylenes (46 and 39 percent), total 1,2-dichloroethene (44 and 38 percent), toluene (47 and 38 percent), bromomethane (13 and 16 percent), tetrachloroethene (36 and 28 percent), vinyl chloride (26 and 19 percent), methylene chloride (39 and 35 percent), ethylbenzene (45 and 36 percent), *cis*-1,3-dichloropropene (58 and 55 percent), chloromethane (29 and 24 percent), chloroform (52 and 45 percent), chloroethane (38 and 30 percent), and chlorobenzene (52 and 45 percent). The results for bromodichloromethane, carbon disulfide,

carbon tetrachloride, 1,2-dichlorobenzene, 1,1-dichloroethene, styrene, total xylenes, toluene, bromomethane, methylene chloride, ethylbenzene, *cis*-1,3-dichloropropene, chloromethane, chloroform, and chloroethane suggest a potential low bias for these compounds. However, since these compounds were not detected in the monitoring well samples for Sites 1 and 3, the data are usable as reported. The recoveries for 1,4-dichlorobenzene, benzene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,1-dichloroethane, total 1,2-dichloroethene, and chlorobenzene were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected. The data user should note that the positive results for 1,1,1-trichloroethane, trichloroethene, and tetrachloroethene in Sample MW-202A and vinyl chloride in Sample MW-217B were qualified as estimated with a low bias based on both MS/MSD RPDs and MS/MSD recoveries (see Section C.3.1).

The surface water sample MS/MSD recoveries (from Sites 1 and 3) were within the established control limits in Sample SW-9 with the exception of 1,1,1-trichloroethane (58 percent), carbon disulfide (54 and 52 percent), carbon tetrachloride (56 and 53 percent), 1,1-dichloroethene (48 and 48 percent), tetrachloroethene (56 and 52 percent), vinyl chloride (47 and 50 percent), and methylene chloride (58 and 56 percent). The results for 1,1,1-trichloroethane, carbon disulfide, carbon tetrachloride, 1,1-dichloroethene, tetrachloroethene, vinyl chloride, and methylene chloride suggest a potential low bias for these compounds. However, since these compounds were not detected in the surface water samples for Sites 1 and 3, the data are usable as reported.

The leachate seep sediment MS/MSD recoveries (from Sites 1 and 3) met acceptance criteria in Sample LT-1 with the exception of the following: 1,4-dichlorobenzene (57 percent), acetone (44 percent), 1,1,2,2-tetrachloroethane (192 percent), styrene (52 and 54 percent), and methylene chloride (54 percent). The results for 1,1,2,2-tetrachloroethane suggest a potential high bias for this compound. However, since this compound was not detected in the leachate seep sediment samples for Sites 1 and 3, the data are usable as reported. The results for styrene suggest a potential low bias for this compound. However, since this compound was not detected in the leachate seep sediment samples for Sites 1 and 3, the data are usable as reported. The recoveries for methylene chloride were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected. The data user should note that the positive results for 1,4-dichlorobenzene and acetone were qualified as estimated with a low bias based on both MS/MSD RPDs and MS/MSD recoveries (see Section C.3.1 for discussion).

The aqueous diffusion sample MS/MSD recoveries (from Eastern Plume) met acceptance criteria with the exception of the following: carbon disulfide (51 and 48 percent), 1,1-dichloroethene (46 and 47 percent), trichloroethene (56 and 58 percent), tetrachloroethene (52 and 51 percent), vinyl chloride (48 and 51 percent), methylene chloride (58 percent), and chloroethane (59 percent) in Sample MW-105A (deep); and carbon tetrachloride (57 and 55 percent), 1,1-dichloroethene (58 and 54 percent), and tetrachloroethene (59 percent) in Sample MW-231A (deep). The recoveries for carbon disulfide, 1,1-dichloroethene, trichloroethene, tetrachloroethene, vinyl

chloride, methylene chloride, and chloroethane in Sample MW-105A (deep) and carbon tetrachloride, 1,1-dichloroethene, and tetrachloroethene were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected.

The combined effluent sample MS/MSD recoveries (from Eastern Plume) met acceptance criteria in the combined effluent sample with the exception of the following: acetone (56 and 53 percent), carbon disulfide (57 and 56 percent), carbon tetrachloride (53 and 49 percent), 1,1-dichloroethene (52 and 51 percent), tetrachloroethene (56 percent), and vinyl chloride (56 and 56 percent). The recoveries for acetone, carbon disulfide, carbon tetrachloride, 1,1-dichloroethene, tetrachloroethene, and vinyl chloride were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected.

The monitoring well sample MS/MSD recoveries (from Eastern Plume) met acceptance criteria with the exception of the following: 1,1,1-trichloroethane (58 and 52 percent), carbon disulfide (57 and 51 percent), carbon tetrachloride (46 and 47 percent), 1,1-dichloroethene (48 and 46 percent), trichloroethene (57 and 50 percent), tetrachloroethene (53 and 46 percent), and vinyl chloride (52 and 53 percent) in Sample MW-225A; 1,1,1-trichloroethane (58 percent), acetone (56 and 58 percent), carbon disulfide (57 and 52 percent), carbon tetrachloride (52 and 47 percent), 1,1-dichloroethene (52 and 47 percent), tetrachloroethene (54 percent), and vinyl chloride (55 and 52 percent) in Sample MW-318; and 1,1,1-trichloroethane (38 and 45 percent), 2- hexanone (153 percent), carbon disulfide (43 and 47 percent), 2-butanone (143 percent), carbon tetrachloride (41 and 46 percent), 1,1-dichloroethene (41 and 47 percent), 1,1,2-trichloroethane (142 percent), trichloroethene (45 and 53 percent), total 1,2-dichloroethane (58 percent), bromomethane (46 and 54 percent), tetrachloroethene (44 and 50 percent), vinyl chloride (40 and 45 percent), methylene chloride (51 percent), ethylbenzene (59 percent), chloromethane (48 and 53 percent), and chloroethane (51 and 58 percent) in Sample MW-1104.

The results for carbon disulfide, carbon tetrachloride, and vinyl chloride in Sample MW-225A suggest a potential low bias for these compounds. However, since these compounds were not detected in the samples associated with Sample MW-225A, the data are usable as reported. The recoveries for 1,1,1-trichloroethene, 1,1-dichloroethene, trichloroethene, and tetrachloroethene were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected.

The results for acetone, carbon disulfide, carbon tetrachloride, and vinyl chloride in Sample MW-318 suggest a potential low bias for these compounds. However, since these compounds were not detected in the samples associated with Sample MW-318, the data are usable as reported. The recoveries for 1,1,1-trichloroethane, 1,1-dichloroethene, and tetrachloroethene were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of data is unaffected.

The results for 2-hexanone, carbon disulfide, 2-butanone, carbon tetrachloride, 1,1,2-trichloroethane, bromomethane, vinyl chloride, methylene chloride, ethylbenzene, chloromethane, and chloroethane suggest a potential low bias for these compounds. However, since these compounds were not detected in the samples associated with Sample MW-1104, the data are usable as reported. The recoveries for 1,1,1-trichloroethane, 1,1-dichloroethene, trichloroethene, total 1,2-dichloroethene, and tetrachloroethene were below the QAPP limits. As none of these recoveries grossly exceeded the control limits, and the SMC recoveries alone were acceptable, the usability of the data is unaffected.

The aqueous and sediment sample VOC data are usable as reported based on the review of LCS accuracy. Five VOCs are used to quantify LCS recoveries against laboratory established control limits. The aqueous and sediment LCS recovery limits are stated in the QAPP. The LCS recoveries are within both the QAPP and laboratory established control limits, confirming the laboratory's purging efficiency for both aqueous and solid matrices with the following exceptions: acetone (55 and 56 percent) in the leachate seep sediment samples for Sites 1 and 3; and acetone (54 percent), 2-butanone (142 percent), 2-hexanone (145 percent), 4-methyl-2-pentanone (144 percent), and chloromethane (142 percent) in the aqueous diffusion samples for Eastern Plume. The results for acetone suggest a potential low bias for this compound. However, since this compound was not detected in Sample MW-1104, the data is usable as reported.

The results for 2-hexanone, 4-methyl-2-pentanone, and chloromethane suggest a potential low bias for these compounds. However, since they were not detected in the samples associated with this LCS, the data are usable as reported. The results for 2-butanone in Samples MW-225A (shallow), MW-225A (mid), MW-NASB-212 (shallow), MW-NASB-212 DUP (shallow), MW-305 (shallow), MW-305 (mid), MW-305 (deep), and P-132 (mid) should be considered estimated.

C.4.2 Target Analyte List Metals

All metals are usable as reported based on accuracy criteria. Nineteen Target Analyte List analytes were used to quantify MS/MSD recoveries for aqueous and sediment samples. Calcium, magnesium, potassium, and sodium were not required as spiking compounds due to the potential for these compounds to be present in the environmental samples at high concentrations. The MS samples were analyzed at the correct frequency, and the accuracy control limits used to evaluate the data were taken from the QAPP.

The laboratory performed an MS/MSD on those samples identified in Section C.3.2. The aqueous MS/MSD recoveries were within the established control limits of 75-125 percent, with the exception of aluminum (295.1 and 285.6 percent). The analytical results for aluminum in Samples SW-04, SW-04 DUP, SW-07, SW-08, and SW-09 should be considered estimated bias high.

The laboratory performed an MS/MSD on those samples identified in Section C.3.2. The sediment MS/MSD recoveries were within the established control limits of 75-125 percent, with the exception of antimony (70.2 and 71.6 percent), magnesium (147.6 and 125.4 percent), and manganese (177.8 and 153.5 percent). The non-detect results for antimony in 6 leachate sediment samples (LT-1, LT-3, LT-4, LT-5, LT-9, and LT-9 DUP) should be considered estimated bias low. The positive results for magnesium and manganese in all 6 leachate sediment samples (LT-1, LT-3, LT-4, LT-5, LT-9, and LT-9 DUP) should be considered estimated bias high.

All 23 Target Analyte List analytes were used to quantify the LCS recoveries against laboratory established control limits. LCS recovery limits were stated in the QAPP. The aqueous and sediment LCS recoveries for Sites 1 and 3 and Eastern Plume samples were within laboratory established control limits, confirming the laboratory's ability to perform sample digestion/ distillation. The aqueous and sediment results should be considered usable based on the review of the LCS accuracy.

C.5 COMPLETENESS

Field sampling completeness was quantified by comparing the number of samples analyzed to the number of samples scheduled for collection. At Sites 1 and 3, 26 of 26 samples were collected for a field completeness of 100 percent. At Eastern Plume, 90 of 90 samples were collected for a field completeness of 100 percent.

The field quality control blanks (e.g., trip blanks) were collected at the proper frequency. A total of 5 trip blanks were collected for Sites 1 and 3 and Eastern Plume. There were 2 rinsate blanks associated with Sites 1 and 3 and Eastern Plume. The rinsate blanks collected for Sites 1 and 3 and Eastern Plume included 1 rinsate blank associated with the sediment samples and the leachate sediment samples, and 1 rinsate blank associated with the surface water/seep samples. There was a field blank collected for the aqueous diffusion samples. The 2 rinsate samples and 2 source water blanks for Sites 1 and 3 and Eastern Plume were submitted in compliance with the QAPP.

Analytical completeness was quantitated by reviewing the number of acceptable analytical results to the total number of analytical results. Usable analytical data for Sites 1 and 3 and Eastern Plume were available for all analytes/compounds, therefore, there is a total analytical completeness of 100 percent.

C.6 FIELD QUALITY CONTROL BLANKS

Monitoring well, surface water, seep, and field blank samples contain results that are false-positive based on both field and method blank criteria. Field quality control blanks (rinsate blanks) were evaluated for contamination that may have been introduced during field sampling activities. Trip blanks are indicators for contamination of VOCs during sample shipment. In

cases where contamination exists, environmental samples should be reviewed for possible false-positives. The field quality control blanks collected for Sites 1 and 3 and Eastern Plume included 5 trip blanks, 2 rinsate blanks, 1 field blank, and 2 source water blanks.

C.6.1 Laboratory Method Blanks

Method blanks were reviewed and the following VOCs were present in the method blanks: methylene chloride, chloroform, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, bromomethane, tetrachloroethene, ethylbenzene, total xylenes, carbon tetrachloride, and acetone.

The positive 1,2-dichlorobenzene results for 5 samples should be considered false-positive due to method blank contamination (Seep-4, Seep-5, Seep-9, Seep-9 Dup, and MW-313).

The positive methylene chloride results for 2 samples should be considered false-positive due to method blank contamination (LT-1 and trip blank QT-003).

The positive acetone results for 32 samples should be considered false-positive due to method blank contamination (MW-230A [deep], MW-231A [deep], MW-231B [shallow], MW-308 [mid], MW-308 [deep], MW-309B [shallow], MW-309B [mid], MW-309B [deep], P-106 DUP, SW-10, SW-12, SW-13, SW-14, SW-13 DUP, MW-311 [deep], MW-311 DUP [deep], MW-332 [mid], MW-332 DUP [mid], MW-331 [mid], MW-319 [deep], MW-1104 [shallow], MW-1104 [mid], MW-1104 [deep], MW-225A [shallow], MW-225A [mid], MW-NASB-212 [shallow], MW-NASB-212 DUP [shallow], MW-305 [shallow], MW-305 [mid], MW-305 [deep], P-132 [shallow], and P-132 [mid]).

C.6.2 Trip Blanks

Trip blanks associated with Sites 1 and 3 and Eastern Plume were analyzed for VOCs. The results of the 5 trip blanks are shown in the following table:

Compounds	Units	QT-001	QT-002	QT-003	QT-004	QT-005
Methylene chloride	µg/L	(<1U)	0.6J	0.6JB	0.7J	(<1U)
Acetone	µg/L	5J	(<5U)	(<5U)	(<5U)	(<5U)

NOTE: U = Not detected. Sample quantitation limits are shown as (<___U).
J = Estimated concentration.
B = Compound detected in associated method blank.

The results for acetone in Sample MW-217B should be considered false-positive due to trip blank contamination.

The results for methylene chloride in 4 samples should be considered false-positive due to field blank contamination (MW-311 [deep], MW-311 DUP [deep], MW-331 [mid], and MW-331 DUP [mid]).

C.6.3 Rinsate, Source, and Field Blanks

The equipment rinsate blanks associated with sediment and surface water samples collected at Sites 1 and 3 and Eastern Plume were analyzed for VOCs and Target Analyte List metals. The positive results of the 2 rinsate blanks (QS-1 [dedicated jar rinsate] and QS-2 [equipment rinsates]), and the associated source water blank (QD-1) associated with Sites 1 and 3 samples, are shown in the table below:

Compounds/Analytes	Units	S1-QS-001	S1-QS-002	S1-QD-001
Acetone	µg/L	3J	4J	4J
NOTE: J = Estimated concentration below detection limit.				

The analytical results of the equipment rinsate blanks and source water blank indicate that there was minor laboratory contamination present. Four samples (SW-04 DUP, SW-07, SW-08, and LT-01) had positive concentrations of acetone within the expected range of variability of the source water blank and rinsate blank contamination and should, therefore, be considered as false-positives due to rinsate blank contamination. See method blank discussions for actions taken for acetone contamination in Samples SW-10, SW-12, SW-13, SW-13 DUP, and SW-14.

The results of the field blank (EP-QS-001) and source water blank (EP-QD-001) associated with the aqueous diffusion samples taken at Eastern Plume are shown in the table below:

Compounds/Analytes	Units	EP-QD-001	EP-QS-001
Acetone	µg/L	(<5U)	19
Benzene	µg/L	(<1U)	2
NOTE: U = Not detected. Sample quantitation limits are shown as (<___U).			

The analytical results of the field blank indicate that there was minor benzene contamination present. Based on the analytical results of the source water blank, acetone is a laboratory contaminant. See method blank discussions for actions taken for methylene chloride contamination. The positive results for acetone in 27 samples (MW-224 [mid], MW-225A [deep], MW-229A [mid], MW-229A DUP [mid], MW-230A [mid], MW-231A [shallow], MW-231A [mid], MW-231B [mid], MW-231B [deep], MW-303 [mid], MW-303 [deep], MW-306 [deep], MW-313 [shallow], MW-313 [mid], MW-313 [deep], MW-318 [shallow], MW-318 [mid], MW-318 [deep], MW-330 [shallow], MW-331 DUP [mid], MW-333 [shallow], MW-333 [mid], MW-333 [deep], MW-334 [shallow], MW-334 [mid], MW-334 [deep], and P-132 [deep]) should be considered false-positive due to field blank contamination.

The positive results for benzene in 2 samples (MW-331 [mid] and MW-331 DUP [mid]) should be considered false-positives due to rinsate blank contamination.

C.7 DUPLICATE FIELD SAMPLES

Results for some analytes and compounds in the field duplicates for monitoring well, aqueous diffusion, aqueous seep, and leachate sediment samples are estimated due to field duplicate criteria. Field duplicate samples are used to evaluate the overall precision for both the field and laboratory, and the homogeneity of the sample matrix. Typically, these results have more variability than laboratory precision measurements with the extremes being noted in soil matrices. Based on EPA Region I criteria for evaluating field duplicates, the following guidelines were used to review the field duplicates taken during the sampling event. The overall precision of organic compounds was evaluated as the RPD (non-detects were defined as one-half the reporting limit) and considered acceptable at an RPD of less than 30 percent for water samples and 50 percent for soil samples. Overall precision for inorganic analytes was evaluated by reviewing the difference of the field duplicate for analytes with concentrations less than 5 times the reporting limit (the difference cannot be greater than ±2 times the reporting limit for water samples or cannot be greater than ±4 times reporting limit for soil samples), and by the RPD (less than 30 percent for water samples and 50 percent for soil samples) for the analytes greater than 5 times the reporting limit. Non-detects were defined as one-half the reporting limit for difference measurements. The reporting limits used to evaluate the data are based on those presented in the QAPP.

The sample locations of the field duplicate samples were not identified to the laboratory. A total of 15 samples were duplicated for Sites 1 and 3 and Eastern Plume (collected during the ground-water, surface water, sediment, seep, aqueous diffusion, and treatment plant sampling programs). Each SDG had the appropriate number of duplicate field samples collected. The RPD results from the 4 field duplicate ground-water samples, 2 field duplicate surface water samples, 1 field duplicate leachate seep sample, 1 field duplicate leachate sediment sample, 6 field duplicate aqueous diffusion samples, and 1 field duplicate effluent sample are shown in the tables below.

The following table shows the field duplicate results from the surface water samples associated with SDG S1SP001:

Compounds/Analytes	Units	SW-4	SW-4 DUP	RPD%	Difference
Acetone	µg/L	(<5.0U)	3J	18	---
Aluminum	µg/L	795	697	NA	98
Barium	µg/L	23.2	22.9	NA	0.3
Cadmium	µg/L	0.24B*	(<0.24U)	NA	0.12
Calcium	µg/L	10,200	10,100	1	NR
Chromium	µg/L	1.1B*	0.93B*	NA	0.17
Iron	µg/L	1,320	1,180	11.2	NR
Lead	µg/L	1.9B*	2.4B*	NA	0.5
Magnesium	µg/L	2,060	2,020	2	NR
Manganese	µg/L	235	234	0.4	NR
Nickel	µg/L	2.8B*	2.5B*	NA	0.3
Potassium	µg/L	1,960	1,970	NA	10
Sodium	µg/L	17,700	17,700	0	NR
Vanadium	µg/L	1.6B*	1.4B*	NA	0.2
Zinc	µg/L	6.8B*	6.5B*	NA	0.3

NOTE: U = Not detected. Sample quantitation limits are shown as (<__U).
J = Estimated concentration below detection limit.
NA = Not applicable; analyte concentration was less than 5 times the reporting limit.
B* = Analyte concentration is between the IDL and the CRDL.
NR = Not required; analyte concentration was greater than 5 times the reporting limit and, therefore, the RPD was applied.
Dashes (---) indicate this column does not apply to organic analysis.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the field duplicate results from the surface water samples associated with SDG EPSW10:

Compounds/Analytes	Units	SW-13	SW-13 DUP	RPD%
Acetone	µg/L	23B	26B	12.2
2-Butanone	µg/L	11	12	8
Toluene	µg/L	0.5J	(<1U)	0
Total Xylenes	µg/L	0.6J	(<1U)	18

NOTE: B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<___U).

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the field duplicate sample results associated with the monitoring well samples at Sites 1 and 3.

The following table shows the field duplicate sample results associated with SDG S1MW202A:

Compounds/Analytes	Units	MW-218	MW-218 DUP	RPD%	Difference
1,3-Dichlorobenzene	µg/L	(<1U)	0.5J	0	---
Aluminum	µg/L	213B*	247B*	NA	34
Arsenic	µg/L	121	133	9	NR
Barium	µg/L	3.5B*	3.9B*	NA	0.4
Calcium	µg/L	32,600	29,100	11	NR
Chromium	µg/L	6.6B*	10.1B*	NA	3.5
Cobalt	µg/L	2.1B*	2.7B*	NA	0.6
Copper	µg/L	1.0B*	0.90B*	NA	0.1
Iron	µg/L	5,740	5,930	3	NR
Magnesium	µg/L	16,800	15,400	9	NR
Manganese	µg/L	1,730	1,630	6	NR
Mercury	µg/L	0.05B*	0.05B*	NA	0
Nickel	µg/L	8.1B*	11.5B*	NA	34
Potassium	µg/L	8,220	8,540	4	NR
Sodium	µg/L	158,000	180,000	13	NR
Zinc	µg/L	15.3B*	15.8B*	NA	0.5

NOTE:
U = Not detected. Sample quantitation limits are shown as (<__U).
J = Estimated concentration below detection limit.
B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5 times the reporting limit.
NR = Not required; analyte concentration was greater than 5 times the reporting limit and, therefore, the RPD was applied.
Dashes (---) indicate this column does not apply to organic analysis.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the field duplicate sample results associated with the aqueous seep samples at Sites 1 and 3.

The following table shows the results of the aqueous seep sample field duplicate associated with SDG S1SP001:

Compounds/Analytes	Units	SEEP-09	SEEP-09 DUP	RPD%	Difference
1,1-dichloroethane	µg/L	0.5J	0.5J	0	---
1,2-dichlorobenzene	µg/L	3B	2B	**40**	---
Aluminum	µg/L	156B*	223B*	NA	67
Arsenic	µg/L	(<2.53U)	7.8B*	NA	6.5
Barium	µg/L	31.3	26.0	1	NR
Cadmium	µg/L	(<0.24U)	0.58B*	NA	0.34
Calcium	µg/L	29,300	25,900	12	NR
Cobalt	µg/L	1.4B*	1.5B*	NA	0.1
Iron	µg/L	28,600	37,600	27	NR
Lead	µg/L	(<1.48U)	2.0B*	NA	1.3
Magnesium	µg/L	4,250	3,970	7	NR
Manganese	µg/L	1,040	728	35	NR
Nickel	µg/L	2.3B*	2.1B*	NA	0.2
Potassium	µg/L	5,450	5,150	6	NR
Sodium	µg/L	13,700	13,800	1	NR
Zinc	µg/L	2.4B*	3.0B*	NA	0.6

NOTE:
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5 times the reporting limit.
U = Not detected. Sample quantitation limits are shown as (<__U).
NR = Not required; analyte concentration was greater than 5 times the reporting limit and, therefore, the RPD was applied.
Dashes (---) indicate this column does not apply to organic analysis.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of 1,2-dichlorobenzene. The data user should note that the results for 1,2-dichlorobenzene should be considered false-positive due to method blank contamination and, therefore, the precision criteria would not apply (see Section C.6 for discussion).

The following table shows the results of the leachate sediment sample field duplicate associated with SDG S1LTSD1:

Compounds/Analytes	Units	LT-9	LT-9 DUP	RPD%	Difference
Chloroethane	µg/kg	(<9U)	8J	**56**	---
Methylene chloride	µg/kg	(<4U)	38B	**180**	---
Acetone	µg/kg	180	280	43	---
Carbon Disulfide	µg/kg	19	46	**83**	---
1,1-Dichloroethane	µg/kg	17	11	43	---
2-Butanone	µg/kg	48	69	36	---
Chlorobenzene	µg/kg	30	47	44	---
1,2-Dichlorobenzene	µg/kg	410B	920B	**77**	---
1,4-Dichlorobenzene	µg/kg	140	330B	**81**	---
Aluminum	mg/kg	12,700	15,400	19	NR
Arsenic	mg/kg	265	184	36	NR
Barium	mg/kg	42.5	51.2	19	NR
Beryllium	mg/kg	0.70B*	0.95B*	NA	0.25
Calcium	mg/kg	3,340	4,250	24	NR
Chromium	mg/kg	12.9	21.0	NA	8.1
Cobalt	mg/kg	40.3	126	NA	85.7
Copper	mg/kg	8.7	13.3	NA	46
Iron	mg/kg	268,000	176,000	41	NR
Lead	mg/kg	20.9	29.5	NA	8.6
Magnesium	mg/kg	2,320	3,350	36	NR
Manganese	mg/kg	703	595	17	NR
Mercury	mg/kg	0.13	0.22	NA	0.09
Nickel	mg/kg	15.7	26.6	NA	10.9
Potassium	mg/kg	1,350	1,880	NA	530
Selenium	mg/kg	(<4.76U)	3.6B*	NA	1.2
Sodium	mg/kg	(<57.61U)	213B*	NA	184
Vanadium	mg/kg	29.4	40.5	NA	11.1
Zinc	mg/kg	34.3	48.5	NA	14.2

NOTE: U = Not detected. Sample quantitation limits are shown as (<__U).
J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
NR = Not required; analyte concentration was greater than 5 times the CRDL and, therefore, the RPD was applied.
B* = Analyte concentration is between the IDL and the CRDL.
NA = Not applicable; analyte concentration was less than 5 times the CRDL.
Results in bold indicate an exceedance of the precision requirements.
Dashes (---) indicate this column does not apply to organic analysis.

All precision requirements were met for the field duplicate analyses with the exception of chloroethane, methylene chloride, carbon disulfide, 1,2-dichlorobenzene, and 1,4-dichlorobenzene. The results for chloroethane were reported at or below the CRQL in the duplicate sample (LT-9 DUP), where analytical measurement error is anticipated, and were not detected in the sample. Therefore, these RPD discrepancies are not considered significant and the organic data are usable as reported. The positive results for methylene chloride and 1,2-dichlorobenzene should be considered estimations of their true concentrations in Samples LT-9 and LT-9 DUP. The results for carbon disulfide should be considered estimations of their true concentrations in Sample LT-9. The data user should note that the results for 1,4-dichlorobenzene should be considered estimated bias low due to previous precision qualification (see Section C.3.1 for discussion).

The following tables show the field duplicate sample results associated with the Eastern Plume monitoring well samples.

The first set of field duplicate sample results for the monitoring well samples associated with SDG EPP111 (MW-231A and MW231A DUP) had no VOCs detected and, therefore, met all precision requirements. The analytical results for MW-231A are usable as reported based on review of the field duplicate precision.

The following table shows the second set of field duplicate sample results associated with the samples from SDG EPP111:

Compounds	Units	MW-308	MW-308 DUP	RPD%
Acetone	µg/L	(<5U)	6B	**82**
1,1-dichloroethene	µg/L	190	160	17
1,1-dichloroethane	µg/L	68	71	1
Total 1,2-dichloroethene	µg/L	39	40	3
Chloroform	µg/L	1J	1	**67**
1,2-Dichloroethane	µg/L	2	2	0
1,1,1-trichloroethane	µg/L	1,500	1,700	13
Trichloroethene	µg/L	650	710	9
1,1,2-Trichloroethane	µg/L	1	1	0
Tetrachloroethene	µg/L	8	8	0

NOTE: U = Not detected. Sample quantitation limits are shown as (<__U).
B = Compound detected in associated method blank.
J = Estimated concentration.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of acetone and chloroform. The results for chloroform were reported at or below the CRQL in the sample (MW-308) where analytical measurement error is anticipated and, therefore, these RPD discrepancies are not considered significant and the data are usable as reported. The data user should note that the results for acetone should be considered false-positive due to method blank contamination and, therefore, the precision criteria would not apply (see Section C.6 for discussion).

The following table shows the first set of field duplicate sample results associated with the samples from SDG DS231A (deep):

Compounds	Units	MW-207A	MW-207A DUP	RPD%
Total 1,2-dichloroethene	µg/L	14	14	0
1,1,1-trichloroethane	µg/L	4	4	0
Trichloroethene	µg/L	13	14	7
Tetrachloroethene	µg/L	5	4	22

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the first set of field duplicate sample results associated with the aqueous diffusion samples from SDG EPDS311 (deep):

Compounds	Units	MW-332 (mid)	MW-332 (mid) DUP	RPD%
Acetone	µg/L	10B	10B	0
1,1-Dichloroethene	µg/L	13	13	0
1,1-Dichloroethane	µg/L	4	4	0
Total 1,2-dichloroethene	µg/L	2	2	0
2-Butanone	µg/L	5	5	0
1,1,1-Trichloroethane	µg/L	130	130	0
Trichloroethene	µg/L	47	47	0
Tetrachloroethene	µg/L	3	3	0

NOTE: B = Compound detected in associated method blank.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the second set of field duplicate sample results associated with the aqueous diffusion samples from SDG EPDS311 (deep):

Compounds	Units	MW-311 (deep)	MW-311 (deep) DUP	RPD%
Methylene chloride	µg/L	2	2	0
Acetone	µg/L	9B	9B	0
1,1-Dichloroethene	µg/L	84	84	0
1,1-Dichloroethane	µg/L	48	47	2
Total 1,2-Dichloroethene	µg/L	2	2	0
1,2-Dichloroethane	µg/L	3	3	0
2-Butanone	µg/L	4J	4J	0
1,1,1-Trichloroethane	µg/L	3	2	**40**
Trichloroethene	µg/L	160	160	0
Tetrachloroethene	µg/L	4	4	0

NOTE: B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of 1,1,1-trichloroethane. The results for 1,1,1-trichloroethane should be considered estimations of their true concentrations in sample MW-311 (deep).

The following table shows the first set of field duplicate sample results associated with the aqueous diffusion samples from SDG EPDS230A (shallow) DUP:

Compounds	Units	MW-205 (deep)	MW-205 (deep) DUP	RPD%
1,1-Dichloroethene	µg/L	12	12	0
Total 1,2-Dichloroethene	µg/L	13	13	0
1,1,1-Trichloroethane	µg/L	150	160	6.5
Carbon tetrachloride	µg/L	23B	(<2U)	**183**
Trichloroethene	µg/L	94	98	4
Tetrachloroethene	µg/L	8	8	0

NOTE: B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<___U).
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of carbon tetrachloride. The result for carbon tetrachloride should be considered estimations of their true concentrations in Sample MW-205 (deep).

The following table shows the second set of field duplicate sample results associated with the aqueous diffusion samples from SDG EPDS230A (shallow) DUP:

Compounds	Units	MW-NASB-212 (shallow)	MW-NASB-311 (shallow) DUP	RPD%
Acetone	µg/L	21B	20B	5
Total 1,2-Dichloroethene	µg/L	2	1	**67**
2-Butanone	µg/L	6	6	0
Trichloroethene	µg/L	8	8	0

NOTE: B = Compound detected in associated method blank.
Results in bold indicate an exceedance of the precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of total 1,2-dichloroethene. The results for total 1,2-dichloroethene were reported at the CRQL in the both the sample and the duplicate sample MW-NASB-212 (shallow), where analytical measurement error is anticipated. Therefore, these RPD discrepancies are not considered significant and the organic data are usable as reported.

The following table shows the first set of field duplicate sample results associated with the aqueous diffusion samples from SDG EPDS231A (deep):

Compounds	Units	MW-331 (mid)	MW-331 (mid) DUP	RPD%
Methylene chloride	µg/L	2	2	0
Acetone	µg/L	10B	10	0
1,1-Dichloroethene	µg/L	36	31	15
1,1-Dichloroethane	µg/L	24	24	0
Total 1,2-dichloroethene	µg/L	32	32	0
1,2-Dichloroethane	µg/L	1	1	0
2-Butanone	µg/L	6	7	15
1,1,1-Trichloroethane	µg/L	300	26	14
Trichloroethene	µg/L	97	79	20
Benzene	µg/L	0.7J	0.7J	0
Tetrachloroethene	µg/L	4	4	0

NOTE: B = Compound detected in associated method blank.
J = Estimated concentration below detection limit.

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the first set of field duplicate sample results associated with the aqueous diffusion samples from SDG EPDS229A (mid):

Compounds	Units	MW-229A (mid)	MW-229A (mid) DUP	RPD%
Acetone	µg/L	7	6	15
1,1-Dichloroethene	µg/L	3	2	**40**
Total 1,2-dichloroethene	µg/L	7	7	0
1,1,1-Trichloroethane	µg/L	34	30	13
Trichloroethene	µg/L	35	33	6
Tetrachloroethene	µg/L	4	5	22

NOTE: Results in bold indicated exceedance of precision requirements.

All precision requirements were met for the field duplicate analyses with the exception of 1,1-dichloroethene. The results for 1,1-dichloroethene were reported at the CRQL in the both the sample and the duplicate sample MW-229A (mid), where analytical measurement error is anticipated. Therefore, these RPD discrepancies are not considered significant and the organic data are usable as reported.

The field duplicate sample results for the treatment plant samples associated with SDG EPEW2A (combined effluent and combined effluent DUP) had no VOCs detected and, therefore, met all precision requirements. The analytical results for combined effluent are usable as reported based on review of the field duplicate precision.

C.8 METHOD DETECTION LIMITS FOR SOLID AND AQUEOUS SAMPLES

Appendix C.1 provides the method detection limits for solid and aqueous samples. The method detection limit represents the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample for a given matrix.

Appendix C.1

Method Detection Limits for Solid and Aqueous Samples

Date: 1/31/2[illegible] 1:23:02 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-F

[illegible]hdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
012700 and 020800	1.00,5.00	F3921-27 ;F4050-56

Analyst: KMC

Reviewed and Approved by: JB

Date: 020800

File: F0127MDL.XLS

Compound	Spike	F3921	F3922	F3923	F3924	F3925	F3926	F3927	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	1.03	1.03	1.12	1.05	1.10	0.96	1.19	1.07	0.07	0.23
1,1,1-TRICHLOROETHANE	1.00	1.06	1.05	0.92	1.05	1.07	0.95	1.37	1.07	0.15	0.46
1,1,2,2-TETRACHLOROETHANE	1.00	0.90	0.98	0.94	1.02	0.93	0.90	1.17	0.98	0.10	0.30
1,1,2-TRICHLOROETHANE	1.00	0.97	0.99	0.90	1.05	0.91	0.91	1.09	0.97	0.07	0.23
1,1-DICHLOROETHANE	1.00	1.06	1.00	1.04	1.04	1.00	0.99	1.34	1.07	0.12	0.39
1,1-DICHLOROETHENE	1.00	0.93	0.88	0.96	0.78	0.89	0.74	1.21	0.91	0.15	0.48
1,1-DICHLOROPROPENE	1.00	1.08	1.01	1.05	0.94	0.99	0.92	1.47	1.07	0.19	0.59
1,2,3-TRICHLOROBENZENE	1.00	1.08	1.08	1.00	1.13	1.04	1.10	1.38	1.12	0.12	0.39
1,2,3-TRICHLOROPROPANE	1.00	0.91	1.04	0.99	1.00	0.92	0.93	1.20	1.00	0.10	0.32
1,2,4-TRICHLOROBENZENE	1.00	1.09	1.13	0.99	1.11	1.05	1.10	1.36	1.12	0.12	0.36
1,2,4-TRIMETHYLBENZENE	1.00	1.18	1.00	1.04	1.01	0.96	1.00	1.28	1.07	0.12	0.37
1,2-DIBROMO-3-CHLOROPROPANE	1.00	0.77	0.80	1.19	0.90	0.87	1.22	1.42	1.02	0.25	0.79
1,2-DIBROMOETHANE	1.00	0.94	0.98	0.94	0.93	0.92	0.97	1.04	0.96	0.04	0.13
1,2-DICHLOROBENZENE	1.00	1.05	1.09	1.07	1.05	1.01	1.06	1.31	1.09	0.10	0.31
1,2-DICHLOROETHANE	1.00	1.35	1.34	1.53	1.59	1.42	1.50	1.59	1.47	0.11	0.33
1,2-DICHLOROETHENE (CIS)	1.00	0.96	0.90	0.96	0.92	0.97	0.87	1.07	0.95	0.06	0.20
1,2-DICHLOROETHENE (TRANS)	1.00	1.10	0.92	0.89	0.94	0.94	0.97	1.28	1.01	0.14	0.43
1,2-DICHLOROPROPANE	1.00	1.06	0.96	1.05	0.99	1.00	0.86	1.20	1.02	0.10	0.33
1,3,5-TRICHLOROBENZENE	1.00	1.14	1.04	1.09	1.02	0.93	1.10	1.23	1.08	0.10	0.30
1,3,5-TRIMETHYLBENZENE	1.00	1.09	1.00	1.03	1.04	1.00	0.99	1.33	1.07	0.12	0.38
1,3-DICHLOROBENZENE	1.00	1.19	1.07	1.07	1.07	1.03	1.02	1.37	1.12	0.12	0.39
1,3-DICHLOROPROPANE	1.00	1.03	0.99	1.01	1.10	0.98	1.01	1.06	1.03	0.04	0.13
1,4-DICHLOROBENZENE	1.00	1.17	1.06	1.04	1.05	1.01	0.96	1.28	1.08	0.11	0.34
2,2-DICHLOROPROPANE	1.00	1.11	1.06	1.04	1.01	1.00	1.01	1.36	1.08	0.13	0.40
2-BUTANONE	1.00	0.75	1.03	0.67	1.23	0.85	0.78	0.85	0.88	0.19	0.60
2-CHLOROETHYLVINYLETHER	5.00	1.76	2.55	4.49	2.25	3.13	2.25	3.24	2.81	0.90	2.84
2-CHLOROTOLUENE	1.00	1.11	1.01	1.01	1.04	0.97	0.99	1.29	1.06	0.11	0.35
2-HEXANONE	1.00	1.37	0.97	1.00	1.07	0.90	0.96	1.04	1.04	0.15	0.48
4-CHLOROTOLUENE	1.00	1.17	1.05	1.04	1.10	1.01	0.97	1.38	1.10	0.14	0.43
4-METHYL-2-PENTANONE	1.00	1.12	1.00	0.82	1.26	1.01	0.92	1.01	1.02	0.14	0.44
ACETONE	1.00	0.87	1.12	0.99	1.04	0.81	1.17	1.00	1.00	0.13	0.40
ACROLEIN	5.00	3.13	4.12	4.98	2.32	3.53	0.96	1.81	2.98	1.39	4.35
ACRYLONITRILE	1.00	0.86	0.71	0.91	0.74	0.84	0.70	0.65	0.77	0.10	0.30
BENZENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Date: 1/31/2000 11:23:02 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-F

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
012700 and 020800	1.00,5.00	F3921-27 ;F4050-56

Analyst: KMC

Reviewed and Approved by: Date:

File: F0127MDL.XLS

Compound	Spike	F3921	F3922	F3923	F3924	F3925	F3926	F3927	AVG	STD DEV	MDL
BROMOBENZENE	1.00	1.10	1.02	1.01	1.09	1.03	0.99	1.22	1.07	0.08	0.25
BROMOCHLOROMETHANE	1.00	1.11	1.07	1.07	1.09	1.07	1.05	1.05	1.07	0.02	0.07
BROMODICHLOROMETHANE	1.00	1.08	1.03	1.01	1.00	1.12	1.07	1.21	1.07	0.07	0.23
BROMOFORM	1.00	0.94	1.04	1.02	1.04	0.86	0.95	1.28	1.02	0.13	0.42
BROMOMETHANE	1.00	1.08	0.97	0.90	0.97	0.77	0.84	1.18	0.96	0.14	0.44
CARBON DISULFIDE	1.00	1.02	0.92	0.93	0.92	0.94	0.85	1.25	0.98	0.13	0.41
CARBON TETRACHLORIDE	1.00	1.05	1.01	1.05	1.13	1.03	1.00	1.47	1.11	0.17	0.52
CHLOROBENZENE	1.00	1.13	1.10	1.06	1.02	1.02	1.00	1.33	1.09	0.11	0.36
CHLOROETHANE	1.00	1.26	1.26	1.07	1.09	1.05	0.94	1.43	1.16	0.17	0.52
CHLOROFORM	1.00	0.93	0.90	0.96	0.97	0.92	0.88	1.21	0.97	0.11	0.35
CHLOROMETHANE	1.00	1.00	1.04	1.03	1.02	0.93	0.83	1.42	1.04	0.18	0.58
CIS-1,3-DICHLOROPROPENE	1.00	1.18	1.00	1.02	1.01	0.94	1.03	1.05	1.03	0.07	0.23
DIBROMOCHLOROMETHANE	1.00	1.01	1.10	1.03	1.11	1.07	0.93	1.27	1.07	0.11	0.33
DIBROMOMETHANE	1.00	0.94	1.09	1.05	0.96	1.05	0.93	1.08	1.01	0.07	0.22
DICHLORODIFLUOROMETHANE	1.00	1.07	0.99	1.08	1.03	1.08	0.97	1.16	1.05	0.06	0.20
DIETHYL ETHER	1.00	1.00	0.94	0.97	1.02	0.90	1.07	1.03	0.99	0.06	0.18
ETHYL METHACRYLATE	1.00	0.79	0.79	0.95	0.80	1.00	0.89	0.81	0.86	0.09	0.27
ETHYLBENZENE	1.00	1.08	0.98	1.02	0.98	0.97	0.97	1.37	1.05	0.15	0.46
FREON-113	1.00	1.10	0.93	0.87	0.94	0.95	0.97	1.01	0.97	0.07	0.23
HEXACHLOROBUTADIENE	1.00	1.08	1.20	1.04	1.04	0.92	1.02	1.35	1.09	0.14	0.44
ISOPROPYLBENZENE	1.00	1.11	1.03	1.01	0.98	0.96	0.95	1.32	1.05	0.13	0.41
M+P-XYLENE	2.00	2.24	2.03	2.13	2.03	1.95	1.97	2.66	2.14	0.25	0.78
METHYLENE CHLORIDE	1.00	1.39	1.47	1.40	1.56	1.25	1.35	1.50	1.42	0.10	0.32
MTBE	1.00	1.01	0.98	0.95	1.06	0.99	0.99	1.04	1.00	0.04	0.12
N-BUTYLBENZENE	1.00	1.05	0.97	0.98	0.93	0.91	0.90	1.28	1.00	0.13	0.42
N-PROPYLBENZENE	1.00	1.06	0.98	0.98	0.96	0.94	0.95	1.32	1.03	0.13	0.42
NAPHTHALENE	1.00	0.97	1.00	0.98	1.04	0.99	1.06	1.27	1.04	0.10	0.33
O-XYLENE	1.00	1.02	1.00	1.03	0.97	0.96	0.93	1.15	1.01	0.07	0.22
P-ISOPROPYLTOLUENE	1.00	1.06	0.99	1.05	0.96	0.93	0.91	1.35	1.04	0.15	0.47
SEC-BUTYLBENZENE	1.00	1.08	0.97	1.01	0.97	0.95	0.89	1.34	1.03	0.15	0.47
STYRENE	1.00	1.03	0.94	0.96	0.97	0.93	0.94	1.19	0.99	0.09	0.29
TERT-BUTYLBE[illegible]E	1.00	1.19	1.02	1.01	0.9[illegible]	0.96	0.95	1.38	1.07	0.16	0.50
TETRACHLORO[illegible]ENE	1.00	1.18	1.08	1.19	1.0[illegible]	1.06	1.02	1.34	1.13	0.11	0.35
TETRAHYDROFURAN	5.00	5.00	4.20	3.33	3.64	3.75	3.47	3.33	3.64	0.79	2.47

Date: 1/31/20[illegible] 1:23:02 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-F

K[illegible]hdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
012700 and 020800	1.00,5.00	F3921-27 ;F4050-56

Analyst: KMC

Reviewed and Approved by: Date:

File: F0127MDL.XLS

Compound	Spike	F3921	F3922	F3923	F3924	F3925	F3926	F3927	AVG	STD DEV	MDL
TOLUENE	1.00	1.10	1.03	1.09	1.01	0.98	1.04	1.30	1.08	0.11	0.33
TRANS-1,3-DICHLOROPROPENE	1.00	1.00	1.03	1.08	1.01	1.01	1.01	1.18	1.05	0.07	0.20
TRICHLOROETHENE	1.00	1.11	0.97	1.04	1.06	1.01	0.99	1.33	1.07	0.12	0.39
TRICHLOROFLUOROMETHANE	1.00	1.09	0.95	1.06	1.00	1.07	1.05	1.23	1.06	0.09	0.27
VINYL ACETATE	1.00	0.92	0.83	0.86	0.86	1.07	0.64	0.64	0.83	0.15	0.48
VINYL CHLORIDE	1.00	1.04	0.99	0.93	0.86	0.82	0.82	1.19	0.95	0.14	0.42

Date: 1/5/2000 8:19:57 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100 >

S8542-748

Analyst: KMC

Reviewed and Approved by: JB

Date: 02072

File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	1.05	1.05	1.06	1.01	0.99	1.06	1.02	1.03	0.03	0.09
1,1,1-TRICHLOROETHANE	1.00	1.07	1.20	1.11	1.06	1.04	0.91	0.96	1.05	0.10	0.30
1,1,2,2-TETRACHLOROETHANE	1.00	0.97	1.07	1.01	0.97	1.05	1.05	0.97	1.01	0.04	0.14
1,1,2-TRICHLOROETHANE	1.00	0.94	1.14	1.12	1.09	1.10	1.04	0.98	1.06	0.07	0.24
1,1-DICHLOROETHANE	1.00	1.08	1.17	1.17	1.11	1.22	1.05	1.05	1.12	0.07	0.21
1,1-DICHLOROETHENE	2.00	1.99	1.60	1.94	1.52	1.84	1.75	1.66	1.76	0.18	0.55
1,1-DICHLOROPROPENE	1.00	1.22	1.26	1.15	1.23	1.20	1.06	1.12	1.18	0.07	0.22
1,2,3-TRICHLOROBENZENE	1.00	1.41	1.16	1.07	1.01	1.00	0.90	0.82	1.05	0.19	0.60
1,2,3-TRICHLOROPROPANE	1.00	1.41	1.12	1.27	1.12	1.19	1.15	1.06	1.19	0.12	0.37
1,2,4-TRICHLOROBENZENE	1.00	1.25	1.15	1.08	1.14	1.04	0.96	0.88	1.07	0.12	0.39
1,2,4-TRIMETHYLBENZENE	1.00	1.06	1.09	0.99	0.89	0.89	0.92	0.83	0.95	0.10	0.30
1,2-DIBROMO-3-CHLOROPROPANE	1.00	1.31	1.29	0.67	1.09	1.07	1.00	0.67	1.01	0.26	0.82
1,2-DIBROMOETHANE	1.00	0.97	0.98	0.90	0.96	1.02	1.06	1.07	0.99	0.06	0.19
1,2-DICHLOROBENZENE	1.00	1.18	1.19	1.14	1.10	1.06	0.97	0.97	1.09	0.09	0.29
1,2-DICHLOROETHANE	1.00	1.36	1.50	1.50	1.45	1.53	1.47	1.41	1.46	0.06	0.19
1,2-DICHLOROETHENE (CIS)	1.00	1.01	1.14	1.10	0.99	1.11	1.01	1.00	1.05	0.06	0.20
1,2-DICHLOROETHENE (TRANS)	1.00	1.06	1.23	1.11	1.11	1.02	0.99	1.00	1.07	0.08	0.26
1,2-DICHLOROPROPANE	1.00	0.96	1.10	1.08	1.09	1.03	1.01	1.00	1.04	0.05	0.17
1,3,5-TRICHLOROBENZENE	1.00	1.22	1.31	1.26	1.08	1.03	0.87	0.97	1.11	0.16	0.51
1,3,5-TRIMETHYLBENZENE	1.00	1.06	1.12	1.02	0.99	0.97	0.88	0.92	0.99	0.08	0.26
1,3-DICHLOROBENZENE	1.00	1.12	1.12	1.07	1.06	1.11	1.03	0.91	1.06	0.07	0.23
1,3-DICHLOROPROPANE	1.00	1.04	1.15	1.15	1.11	1.13	0.97	1.09	1.09	0.07	0.21
1,4-DICHLOROBENZENE	1.00	1.18	1.20	1.12	1.06	1.10	1.03	0.99	1.10	0.08	0.24
2,2-DICHLOROPROPANE	1.00	1.06	0.96	1.07	0.91	0.98	0.91	0.83	0.96	0.09	0.27
2-BUTANONE	1.00	1.18	1.26	1.00	1.05	0.87	1.19	0.79	1.05	0.17	0.55
2-CHLOROETHYLVINYLETHER	1.00	0.88	0.80	0.75	0.58	0.86	0.75	0.86	0.78	0.10	0.33
2-CHLOROTOLUENE	1.00	1.18	1.13	1.10	1.09	1.04	1.01	0.94	1.07	0.08	0.25
2-HEXANONE	1.00	0.93	0.78	1.06	0.66	0.91	0.78	0.85	0.85	0.13	0.41
4-CHLOROTOLUENE	1.00	1.11	1.08	1.04	1.00	1.00	0.96	0.91	1.01	0.07	0.22
4-METHYL-2-PENTANONE	1.00	0.86	1.11	1.03	0.89	1.10	0.99	1.06	1.01	0.10	0.31
ACETONE	1.00	1.09	1.24	1.01	1.00	1.15	1.46	0.88	1.12	0.19	0.60
ACROLEIN	1.00	1.33	0.75	0.67	[illegible]	0.75	1.13	0.87	0.99	0.31	0.96
ACRYLONIT[illegible]	1.00	0.95	0.81	1.23	[illegible]	0.92	1.23	1.02	1.03	0.16	0.49
BENZENE	2.00	2.13	2.15	2.18	2.00	2.04	2.05	2.01	2.08	0.07	0.23

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Matrix: AQ

Compound List: 8260

Instrument: 5972-S

[illegible]tahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

Analyst: KMC

Reviewed and Approved by: Date:

File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
BROMOBENZENE	1.00	1.09	1.15	1.10	1.08	1.08	1.03	1.08	1.09	0.04	0.11
BROMOCHLOROMETHANE	1.00	1.16	1.18	1.06	1.02	1.06	1.16	1.05	1.10	0.07	0.21
BROMODICHLOROMETHANE	1.00	0.99	1.07	1.01	1.07	1.05	0.96	1.05	1.03	0.04	0.13
BROMOFORM	1.00	0.80	0.97	0.94	0.86	0.90	0.83	0.96	0.89	0.07	0.21
BROMOMETHANE	1.00	1.01	1.19	0.94	1.18	0.92	1.19	0.93	1.05	0.13	0.41
CARBON DISULFIDE	1.00	1.13	1.21	1.07	1.07	1.08	1.04	0.99	1.08	0.07	0.22
CARBON TETRACHLORIDE	1.00	1.02	1.02	1.10	1.07	1.00	0.96	0.99	1.02	0.05	0.15
CHLOROBENZENE	1.00	1.45	1.54	1.50	1.52	1.44	1.40	1.34	1.46	0.07	0.22
CHLOROETHANE	1.00	1.18	1.36	1.18	1.24	1.18	1.23	1.15	1.22	0.07	0.22
CHLOROFORM	1.00	1.17	1.13	1.07	1.13	1.13	1.12	1.11	1.12	0.03	0.09
CHLOROMETHANE	1.00	1.08	1.14	1.12	1.23	1.08	1.17	1.07	1.13	0.06	0.18
CIS-1,3-DICHLOROPROPENE	1.00	1.08	1.02	0.99	0.91	0.89	0.90	0.87	0.95	0.08	0.25
DIBROMOCHLOROMETHANE	1.00	0.99	1.05	1.00	0.93	0.96	0.93	0.92	0.97	0.05	0.15
DIBROMOMETHANE	1.00	1.02	1.15	1.01	1.06	1.17	1.14	1.04	1.08	0.07	0.21
DICHLORODIFLUOROMETHANE	1.00	1.01	1.09	0.94	0.95	0.98	0.72	0.81	0.93	0.12	0.39
DIETHYL ETHER	1.00	1.16	1.16	1.10	0.93	1.07	1.09	1.05	1.08	0.08	0.25
ETHYLBENZENE	1.00	1.12	1.13	1.07	1.10	1.04	0.98	0.93	1.05	0.07	0.24
FREON-113	1.00	1.16	1.23	1.27	1.22	0.96	1.05	1.06	1.14	0.11	0.36
HEXACHLOROBUTADIENE	1.00	1.31	1.27	1.15	1.09	1.23	1.03	0.90	1.14	0.15	0.46
ISOPROPYLBENZENE	1.00	1.05	1.10	0.97	1.00	1.02	0.93	0.89	0.99	0.07	0.22
M+P-XYLENE	2.00	2.20	2.35	2.17	2.16	1.92	1.95	1.82	2.08	0.19	0.59
METHYLENE CHLORIDE	1.00	2.06	1.82	1.82	2.22	1.83	1.92	2.16	1.98	0.17	0.53
MTBE	1.00	1.10	1.08	1.10	1.10	1.11	1.07	1.10	1.09	0.01	0.04
N-BUTYLBENZENE	1.00	1.00	0.99	0.92	0.84	0.89	0.79	0.68	0.87	0.11	0.36
N-PROPYLBENZENE	1.00	1.08	1.05	1.03	0.96	0.97	0.94	0.86	0.98	0.08	0.24
NAPHTHALENE	1.00	1.17	1.02	0.88	0.92	0.82	0.84	0.88	0.93	0.12	0.39
O-XYLENE	1.00	0.96	1.08	0.98	1.02	0.95	1.00	0.97	0.99	0.04	0.14
P-ISOPROPYLTOLUENE	1.00	1.04	0.99	0.94	0.87	0.87	0.83	0.82	0.91	0.08	0.26
SEC-BUTYLBENZENE	1.00	1.07	1.02	1.04	0.98	0.94	0.89	0.86	0.97	0.08	0.25
STYRENE	1.00	0.92	0.97	0.88	0.81	0.86	0.76	0.87	0.87	0.07	0.22
TERT-BUTYLBENZENE	1.00	1.10	1.10	1.05	0.96	0.99	0.86	0.86	0.99	0.10	0.32
TETRACHLOROETHENE	1.00	1.16	1.25	1.10	1.14	1.02	1.04	0.94	1.09	0.10	0.32
TETRAHYDROFURAN	1.00	1.34	1.23	1.31	1.43	1.24	1.42	1.58	1.36	0.12	0.39
TOLUENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Date: 1/5/2000 8:19:57 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

Analyst: KMC

Reviewed and Approved by: Date:

File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	1.05	0.95	0.93	0.81	0.92	0.88	0.86	0.91	0.08	0.24
TRICHLOROETHENE	2.00	2.23	2.20	2.34	2.11	2.12	1.94	2.04	2.14	0.13	0.41
TRICHLOROFLUOROMETHANE	1.00	1.14	1.12	1.05	1.12	1.01	0.98	0.97	1.06	0.07	0.22
VINYL ACETATE	2.00	1.95	1.96	1.87	1.92	1.74	1.86	1.68	1.85	0.11	0.34
VINYL CHLORIDE	1.00	1.14	1.27	1.13	1.09	0.87	1.05	0.99	1.08	0.13	0.40

Date: 1/12/ :44:50 PM

Matrix: AQ

Compound List: 8260

Instrument: 5973-U

Katah[illegible] Analytical Services
MDL Study

Dates f Analysis	Spike	Data Files
11,200,020,400	1.00,5.00	U2686-91,93

Analyst: KMC

Reviewed and Approved by: JB Date: 020712

File: U0112MDL.XLS

Compound	Spike	U2686	U2687	U2688	U2689	U2690	U2691	U2693	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	0.82	0.99	0.94	0.87	0.91	0.87	0.88	0.90	0.06	0.17
1,1,1-TRICHLOROETHANE	1.00	0.89	1.13	1.01	1.00	1.24	1.01	1.01	1.04	0.11	0.35
1,1,2,2-TETRACHLOROETHANE	1.00	1.00	1.04	1.10	1.06	0.91	1.00	1.03	1.02	0.06	0.19
1,1,2-TRICHLOROETHANE	1.00	0.97	1.01	0.92	0.94	0.95	1.02	1.01	0.97	0.04	0.12
1,1-DICHLOROETHANE	1.00	1.00	1.08	1.13	1.14	1.40	1.17	1.15	1.15	0.12	0.39
1,1-DICHLOROETHENE	1.00	1.21	1.35	1.30	1.25	1.36	1.41	1.37	1.32	0.07	0.22
1,1-DICHLOROPROPENE	1.00	1.74	1.78	1.71	1.77	1.64	1.66	1.65	1.71	0.06	0.18
1,2,3-TRICHLOROBENZENE	1.00	0.55	0.57	0.55	0.55	0.51	0.51	0.61	0.55	0.03	0.11
1,2,3-TRICHLOROPROPANE	1.00	1.01	0.88	1.23	1.10	0.96	1.11	1.11	1.06	0.12	0.36
1,2,4-TRICHLOROBENZENE	1.00	0.57	0.57	0.59	0.59	0.58	0.51	0.61	0.57	0.03	0.10
1,2,4-TRIMETHYLBENZENE	1.00	0.58	0.60	0.62	0.57	0.59	0.57	0.59	0.59	0.02	0.06
1,2-DIBROMO-3-CHLOROPROPANE	1.00	1.09	1.09	1.22	1.11	0.93	0.86	0.80	1.01	0.15	0.48
1,2-DIBROMOETHANE	1.00	0.90	0.87	0.96	0.99	0.96	0.87	0.91	0.92	0.05	0.15
1,2-DICHLOROBENZENE	1.00	0.84	0.91	0.89	0.85	0.92	0.87	0.94	0.89	0.04	0.12
1,2-DICHLOROETHANE	1.00	1.33	1.35	1.40	1.45	1.40	1.33	1.38	1.38	0.04	0.14
1,2-DICHLOROETHENE (CIS)	1.00	0.90	1.02	0.92	0.91	0.93	0.92	0.95	0.94	0.04	0.13
1,2-DICHLOROETHENE (TRANS)	1.00	1.08	1.33	1.00	1.17	1.51	1.51	1.24	1.26	0.20	0.63
1,2-DICHLOROPROPANE	1.00	0.96	0.93	0.92	0.95	1.06	0.97	0.94	0.96	0.05	0.15
1,3,5-TRICHLOROBENZENE	1.00	1.07	1.06	1.20	1.10	0.88	0.90	0.69	0.99	0.17	0.54
1,3,5-TRIMETHYLBENZENE	1.00	0.64	0.65	0.68	0.64	0.64	0.64	0.66	0.65	0.02	0.05
1,3-DICHLOROBENZENE	1.00	0.82	0.87	0.85	0.84	0.90	0.89	0.85	0.86	0.03	0.09
1,3-DICHLOROPROPANE	1.00	0.97	0.88	0.99	0.90	0.96	0.95	0.93	0.94	0.04	0.12
1,4-DICHLOROBENZENE	1.00	0.99	0.99	1.04	1.00	1.10	1.05	1.06	1.03	0.04	0.13
2,2-DICHLOROPROPANE	1.00	1.01	1.03	1.03	1.06	1.12	0.98	1.02	1.04	0.04	0.14
2-BUTANONE	1.00	1.32	1.34	1.17	1.20	1.30	1.17	1.20	1.24	0.07	0.23
2-CHLOROETHYLVINYLETHER	5.00	0.77	2.78	2.82	1.98	0.89	2.08	1.08	1.77	0.87	2.73
2-CHLOROTOLUENE	1.00	0.81	0.86	0.85	0.83	0.79	0.81	0.84	0.83	0.02	0.08
2-HEXANONE	1.00	0.78	0.74	0.80	0.81	0.88	0.55	0.82	0.77	0.11	0.33
4-CHLOROTOLUENE	1.00	0.80	0.79	0.79	0.77	0.75	0.74	0.78	0.77	0.02	0.07
4-METHYL-2-PENTANONE	1.00	1.05	0.86	1.11	1.02	1.12	0.88	0.89	0.99	0.11	0.35
ACETONE	1.00	1.26	1.11	1.20	1.05	1.15	1.00	0.97	1.11	0.11	0.33
ACROLEIN	5.00	4.57	4.97	4.30	4.45	4.17	4.39	3.56	4.34	0.43	1.35
ACRYLONITRILE	1.00	1.47	1.45	1.06	1.42	1.01	1.32	1.23	1.28	0.19	0.59
BENZENE	1.00	0.89	0.84	0.97	0.92	1.06	1.00	0.93	0.94	0.07	0.23

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Matrix: AQ

Compound List: 8260

Instrument: 5973-U

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
11,200,020,400	1.00,5.00	U2686-91,93

Analyst: KMC

Reviewed and Approved by: Date:

File: U0112MDL.XLS

Compound	Spike	U2686	U2687	U2688	U2689	U2690	U2691	U2693	AVG	STD DEV	MDL
BROMOBENZENE	1.00	0.97	1.05	1.00	0.95	1.01	0.98	0.97	0.99	0.03	0.10
BROMOCHLOROMETHANE	1.00	1.14	1.15	1.20	1.23	1.13	1.27	1.24	1.19	0.06	0.17
BROMODICHLOROMETHANE	1.00	1.04	0.95	0.95	0.91	0.98	0.92	0.89	0.95	0.05	0.16
BROMOFORM	1.00	0.81	0.76	0.80	0.85	0.67	0.74	0.74	0.77	0.06	0.18
BROMOMETHANE	1.00	1.40	1.23	1.23	1.29	1.26	1.48	1.35	1.32	0.09	0.30
CARBON DISULFIDE	1.00	1.32	1.33	1.38	1.31	1.62	1.48	1.43	1.41	0.11	0.35
CARBON TETRACHLORIDE	1.00	1.06	1.08	1.03	1.06	1.12	0.96	1.00	1.04	0.05	0.17
CHLOROBENZENE	1.00	0.98	1.03	1.01	1.00	1.11	1.09	1.02	1.03	0.05	0.15
CHLOROETHANE	1.00	1.06	1.22	1.35	1.11	1.24	1.62	1.40	1.29	0.19	0.60
CHLOROFORM	1.00	1.05	1.19	1.14	1.18	1.32	1.18	1.19	1.18	0.08	0.25
CHLOROMETHANE	1.00	1.30	1.42	1.34	1.14	1.45	1.73	1.41	1.40	0.18	0.56
CIS-1,3-DICHLOROPROPENE	1.00	0.70	0.72	0.77	0.70	0.65	0.65	0.66	0.69	0.04	0.14
DIBROMOCHLOROMETHANE	1.00	0.86	0.84	0.84	0.89	0.72	0.79	0.80	0.82	0.06	0.17
DIBROMOMETHANE	1.00	1.04	0.91	1.09	1.02	0.94	1.01	0.99	1.00	0.06	0.19
DICHLORODIFLUOROMETHANE	1.00	1.37	1.41	1.54	1.51	1.69	1.52	1.49	1.50	0.10	0.32
DIETHYL ETHER	1.00	1.28	1.17	1.11	1.15	1.40	1.18	1.11	1.20	0.11	0.33
ETHYLBENZENE	1.00	0.77	0.80	0.81	0.79	0.92	0.92	0.75	0.82	0.07	0.22
FREON-113	1.00	1.15	1.06	1.14	1.03	1.10	1.35	1.21	1.15	0.11	0.34
HEXACHLOROBUTADIENE	1.00	0.95	1.00	0.90	0.91	0.91	0.87	0.90	0.92	0.04	0.13
ISOPROPYLBENZENE	1.00	0.60	0.65	0.66	0.63	0.63	0.58	0.58	0.62	0.03	0.10
M+P-XYLENE	2.00	1.36	1.34	1.37	1.32	1.58	1.52	1.29	1.40	0.11	0.34
METHYLENE CHLORIDE	1.00	2.17	2.19	2.21	2.29	2.18	2.34	2.34	2.25	0.08	0.24
MTBE	1.00	1.07	0.97	1.27	1.20	1.30	1.21	1.16	1.17	0.12	0.36
N-BUTYLBENZENE	1.00	0.64	0.69	0.67	0.61	0.61	0.56	0.57	0.62	0.05	0.15
N-PROPYLBENZENE	1.00	0.77	0.81	0.82	0.79	0.77	0.75	0.75	0.78	0.03	0.09
NAPHTHALENE	1.00	0.38	0.36	0.36	0.36	0.30	0.32	0.36	0.35	0.03	0.09
O-XYLENE	1.00	0.59	0.60	0.64	0.58	0.65	0.65	0.54	0.61	0.04	0.13
P-ISOPROPYLTOLUENE	1.00	0.58	0.57	0.56	0.57	0.56	0.55	0.52	0.56	0.02	0.06
SEC-BUTYLBENZENE	1.00	0.62	0.67	0.64	0.60	0.64	0.63	0.63	0.63	0.02	0.07
STYRENE	1.00	0.58	0.57	0.57	0.56	0.58	0.62	0.59	0.58	0.02	0.06
TERT-BUTYLBENZENE	1.00	0.60	0.63	0.63	0.60	0.61	0.55	0.61	0.60	0.03	0.08
TETRACHLORO[illegible]ENE	1.00	1.15	1.12	1.17	1.13	1[illegible]	1.15	1.01	1.14	0.07	0.22
TETRAHYDROF[illegible]	1.00	1.25	0.66	1.10	1.07	0[illegible]	0.59	0.77	0.91	0.25	0.77
TOLUENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Matrix: AQ

Compound List: 8260

Instrument: 5973-U

Katahdi[illegible]Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
11,200,020,400	1.00,5.00	U2686-91,93

Analyst: KMC

Reviewed and Approved by: Date:

File: U0112MDL.XLS

C mp und	Spike	U2686	U2687	U2688	U2689	U2690	U2691	U2693	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	0.70	0.74	0.68	0.67	0.82	0.69	0.69	0.71	0.05	0.16
TRICHLOROETHENE	1.00	0.98	0.92	0.98	0.90	1.09	1.01	0.97	0.98	0.06	0.19
TRICHLOROFLUOROMETHANE	1.00	1.24	1.28	1.41	1.35	1.38	1.37	1.36	1.34	0.06	0.19
VINYL ACETATE	1.00	0.63	0.52	0.51	0.44	0.57	0.38	0.30	0.48	0.11	0.36
VINYL CHLORIDE	1.00	1.36	1.41	1.36	1.29	1.53	1.42	1.46	1.40	0.08	0.24

Date: 2/10/2000 9:04:30 AM

Matrix: AQ

Compound List: 8260

Instrument: HP5970Q

Katahdin Analytical Services
MDL Study

Dates f Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP

Review d and Approved by: JB

Date: 021000

File: Q82WMDL1.XLS

C mpound	Spike	Q8425	Q8427	Q8428	Q8429	Q8430	Q8431	Q8432	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	5.00	4.71	4.63	4.67	4.24	3.95	4.26	4.06	4.36	0.31	0.97
1,1,1-TRICHLOROETHANE	5.00	4.07	4.14	4.90	3.66	3.84	3.77	4.02	4.06	0.41	1.29
1,1,2,2-TETRACHLOROETHANE	5.00	4.82	5.09	5.32	5.27	4.93	5.11	4.97	5.07	0.18	0.57
1,1,2-TRICHLOROETHANE	5.00	4.68	4.71	5.01	5.10	4.50	4.76	5.01	4.82	0.22	0.69
1,1-DICHLOROETHANE	5.00	4.79	4.87	5.16	4.55	4.42	4.74	4.70	4.75	0.24	0.74
1,1-DICHLOROETHENE	5.00	4.02	4.22	4.94	3.32	3.72	3.37	4.05	3.95	0.56	1.75
1,1-DICHLOROPROPENE	5.00	7.58	7.73	8.14	7.37	7.44	7.40	7.91	7.65	0.29	0.91
1,2,3-TRICHLOROBENZENE	5.00	3.36	1.90	1.50	1.18	1.16	0.97	1.99	1.72	0.82	2.57
1,2,3-TRICHLOROPROPANE	5.00	5.11	5.08	5.24	4.57	5.13	4.77	5.25	5.02	0.25	0.80
1,2,4-TRICHLOROBENZENE	5.00	3.37	2.89	2.85	2.01	2.06	2.08	2.55	2.54	0.52	1.64
1,2,4-TRIMETHYLBENZENE	5.00	5.07	4.89	5.11	4.44	4.27	4.55	4.17	4.64	0.38	1.20
1,2-DIBROMO-3-CHLOROPROPANE	5.00	4.31	4.99	4.73	4.75	4.80	4.70	4.71	4.71	0.20	0.64
1,2-DIBROMOETHANE	5.00	4.23	4.33	4.48	4.46	4.21	4.42	4.40	4.36	0.11	0.34
1,2-DICHLOROBENZENE	5.00	5.13	5.34	5.34	4.63	4.69	4.21	4.50	4.83	0.44	1.38
1,2-DICHLOROETHANE	5.00	5.21	5.25	5.35	5.18	4.89	5.17	5.14	5.17	0.14	0.44
1,2-DICHLOROETHENE (CIS)	5.00	4.75	4.65	4.84	4.50	4.17	4.61	4.51	4.58	0.22	0.68
1,2-DICHLOROETHENE (TRANS)	5.00	4.41	4.44	4.67	4.00	3.78	4.07	4.11	4.21	0.31	0.96
1,2-DICHLOROPROPANE	5.00	4.87	5.07	5.31	4.98	4.77	4.84	4.72	4.94	0.20	0.64
1,3,5 TRICHLOROBENZENE	5.00	4.51	4.32	4.49	3.80	3.36	3.75	3.80	4.00	0.44	1.38
1,3,5-TRIMETHYLBENZENE	5.00	4.85	4.84	5.03	4.19	4.49	4.11	4.59	4.59	0.35	1.09
1,3-DICHLOROBENZENE	5.00	4.65	4.46	4.81	4.29	4.05	4.20	4.10	4.37	0.29	0.90
1,3-DICHLOROPROPANE	5.00	4.92	4.95	4.97	4.92	4.64	4.95	4.70	4.86	0.14	0.42
1,4-DICHLOROBENZENE	5.00	4.84	4.66	4.82	4.36	4.06	4.22	4.27	4.46	0.31	0.98
1-CHLOROHEXANE	5.00	6.40	5.28	6.64	5.74	5.90	5.80	5.85	5.94	0.45	1.41
2,2-DICHLOROPROPANE	5.00	4.46	4.59	5.28	4.12	4.25	3.78	4.27	4.39	0.47	1.47
2-BUTANONE	5.00	6.42	10.42	8.09	8.85	8.48	9.19	9.82	8.75	1.30	4.07
2-CHLOROETHYLVINYLETHER	5.00	3.42	3.61	3.84	4.06	3.55	3.89	4.40	3.82	0.34	1.06
2-CHLOROTOLUENE	5.00	3.71	3.83	4.04	3.21	3.03	3.13	4.34	3.61	0.50	1.57
2-HEXANONE	5.00	6.16	5.09	4.01	5.05	5.65	6.04	6.45	5.49	0.84	2.64
4-CHLOROTOLUENE	5.00	4.96	4.90	4.46	4.58	4.14	4.28	3.75	4.44	0.43	1.34
4-METHYL-2-PENTANONE	5.00	6.37	5.53	6.51	6.07	7.09	6.81	6.11	6.36	0.52	1.62
ACETONE	5.00	10.13	9.71	8.32	9.6[illegible]	10.75	8.30	9.48	9.47	0.90	2.82
ACROLEIN	5.00	2.09	4.18	4.98	4.8[illegible]	3.66	3.59	3.67	3.86	0.96	3.03
ACRYLONITRILE	5.00	2.54	3.09	4.34	5.58	4.07	4.97	[illegible]	[illegible]	[illegible]	[illegible]

Date: 2/10/2(4:30 AM

Matrix: AQ

Compound List: 8260

Instrument: HP5970Q

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MDL Study

Dates of Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP

Reviewed and Approved by: Date:

File: Q82WMDL1.XLS

Compound	Spike	Q8425	Q8427	Q8428	Q8429	Q8430	Q8431	Q8432	AVG	STD DEV	MDL
BENZENE	5.00	4.58	4.72	5.00	4.34	4.14	4.54	4.49	4.54	0.27	0.86
BROMOBENZENE	5.00	4.62	4.74	4.59	4.42	3.95	4.40	3.90	4.37	0.33	1.03
BROMOCHLOROMETHANE	5.00	4.57	4.71	4.78	4.26	4.50	4.75	4.77	4.62	0.19	0.60
BROMODICHLOROMETHANE	5.00	4.67	4.77	4.82	4.45	4.43	4.53	4.48	4.59	0.16	0.50
BROMOFORM	5.00	4.09	4.21	4.35	4.18	3.99	4.19	3.94	4.14	0.14	0.44
BROMOMETHANE	5.00	5.17	4.86	5.16	4.83	4.36	4.69	4.76	4.83	0.28	0.88
CARBON DISULFIDE	5.00	4.29	4.29	4.88	3.68	3.90	3.71	4.25	4.14	0.42	1.32
CARBON TETRACHLORIDE	5.00	3.99	3.97	4.90	3.44	3.84	3.64	4.21	4.00	0.47	1.48
CHLOROBENZENE	5.00	4.80	4.68	4.81	4.29	3.93	4.40	4.08	4.43	0.35	1.10
CHLOROETHANE	5.00	4.24	4.65	5.10	4.10	4.31	3.99	4.46	4.41	0.38	1.18
CHLOROFORM	5.00	4.85	4.84	4.97	4.48	4.41	4.80	4.54	4.70	0.22	0.68
CHLOROMETHANE	5.00	4.24	4.65	5.32	4.53	4.89	4.52	5.03	4.74	0.36	1.14
CIS-1,3-DICHLOROPROPENE	5.00	4.67	4.52	4.72	4.53	4.07	4.38	4.18	4.44	0.24	0.76
DIBROMOCHLOROMETHANE	5.00	4.46	4.61	4.62	4.32	4.06	4.41	4.12	4.37	0.22	0.69
DIBROMOMETHANE	5.00	4.60	4.55	4.65	4.16	4.39	4.68	4.57	4.51	0.18	0.57
DICHLORODIFLUOROMETHANE	5.00	3.19	3.11	4.43	2.53	3.22	2.64	3.93	3.29	0.68	2.13
DIETHYL ETHER	5.00	5.09	5.11	5.28	5.07	5.22	5.35	5.41	5.22	0.13	0.42
ETHYLBENZENE	5.00	4.65	4.79	4.95	4.03	4.14	4.21	4.16	4.42	0.37	1.16
FREON-113	5.00	4.94	4.88	4.92	3.82	4.03	4.20	4.07	4.41	0.49	1.53
HEXACHLOROBUTADIENE	5.00	4.37	4.18	4.60	3.43	3.57	3.47	3.60	3.89	0.48	1.51
ISOPROPYLBENZENE	5.00	4.72	4.73	5.26	4.22	4.33	4.22	4.42	4.56	0.38	1.18
M+P-XYLENE	5.00	9.14	9.19	9.65	8.05	7.78	8.39	8.29	8.64	0.69	2.16
METHYLENE CHLORIDE	5.00	6.69	6.86	7.07	6.54	8.61	7.00	7.50	7.18	0.70	2.20
MTBE	5.00	4.72	5.18	5.12	5.06	5.16	5.19	5.21	5.09	0.17	0.54
N-BUTYLBENZENE	5.00	4.81	4.67	5.04	4.04	4.25	3.80	4.25	4.41	0.44	1.40
N-PROPYLBENZENE	5.00	4.73	4.82	5.39	4.13	4.32	4.01	4.42	4.55	0.47	1.49
NAPHTHALENE	5.00	2.34	1.40	1.29	1.17	1.00	1.20	1.74	1.45	0.46	1.43
O-XYLENE	5.00	4.81	4.99	4.98	4.07	4.17	4.53	4.29	4.55	0.38	1.21
P-ISOPROPYLTOLUENE	5.00	4.82	4.82	5.31	4.28	4.40	3.96	4.41	4.57	0.44	1.40
SEC-BUTYLBENZENE	5.00	4.74	4.60	5.28	4.03	3.94	3.79	4.21	4.37	0.53	1.66
STYRENE	5.00	4.53	4.68	4.65	4.08	3.86	4.10	3.84	4.25	0.36	1.14
TERT-BUTYLBENZENE	5.00	4.75	4.70	5.29	4.23	4.17	4.06	4.25	4.49	0.44	1.38
TETRACHLOROETHENE	5.00	4.21	4.20	4.38	3.44	3.60	3.39	3.81	3.86	0.40	1.27
TETRAHYDROFURAN	5.00	5.44	4.60	4.39	5.76	5.49	5.13	5.41	5.17	0.50	1.58

Date: 2/10/2000 9:04:30 AM

Matrix: AQ

Compound List: 8260

Instrument: HP5970Q

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP

Reviewed and Approved by: Date:

File: Q82WMDL1.XLS

C mpound	Spike	Q8425	Q8427	Q8428	Q8429	Q8430	Q8431	Q8432	AVG	STD DEV	MDL
TOLUENE	5.00	4.38	4.50	4.87	4.14	3.98	4.17	4.19	4.32	0.30	0.93
TRANS-1,3-DICHLOROPROPENE	5.00	4.44	4.60	4.71	4.18	4.27	4.37	4.26	4.40	0.19	0.61
TRICHLOROETHENE	5.00	4.45	4.40	4.79	3.87	3.89	3.75	4.03	4.17	0.38	1.20
TRICHLOROFLUOROMETHANE	5.00	3.60	3.57	4.81	2.92	3.82	3.02	4.09	3.69	0.64	2.03
VINYL ACETATE	5.00	5.32	5.01	5.25	5.53	5.69	5.90	5.60	5.47	0.30	0.94
VINYL CHLORIDE	5.00	4.08	4.13	5.12	3.44	3.76	3.69	4.41	4.09	0.56	1.75

Date: 2/11/20[illegible]46:16 AM

Matrix: AQ

Compound List: 8260 5ML

Instrument: 5972-M

K[illegible]ndin Analytical Servic s
MDL Study

Dates of Analysis	Spike	Data Files
21000 and 021100	1.00; 2.00	M3696-3 ,

Analyst: KMC

Reviewed and Approved by: JA

Date: 021402

File: M0210MDL.XLS

Comp und	Spike	M3696	M3697	M3698	M3699	M3700	M3701	M3702	AVG	STD DEV	MDL
1,1,1,2-TETRACHLOROETHANE	1.00	0.92	0.90	0.99	0.92	0.85	0.90	0.92	0.91	0.04	0.13
1,1,1-TRICHLOROETHANE	1.00	0.96	0.95	0.95	0.86	0.85	0.98	1.04	0.94	0.07	0.21
1,1,2,2-TETRACHLOROETHANE	1.00	0.73	0.67	0.75	0.72	0.73	0.68	0.66	0.71	0.04	0.11
1,1,2-TRICHLOROETHANE	1.00	0.92	0.71	0.81	0.82	0.77	0.89	0.82	0.82	0.07	0.22
1,1-DICHLOROETHANE	1.00	1.07	1.01	1.04	0.96	0.95	1.03	1.04	1.01	0.04	0.14
1,1-DICHLOROETHENE	1.00	0.95	0.98	0.94	0.86	0.81	0.92	1.03	0.93	0.07	0.23
1,1-DICHLOROPROPENE	1.00	1.03	1.06	1.10	1.00	0.95	1.06	1.16	1.05	0.07	0.21
1,2,3-TRICHLOROBENZENE	1.00	0.59	0.54	0.57	0.56	0.52	0.55	0.60	0.56	0.03	0.09
1,2,3-TRICHLOROPROPANE	1.00	0.66	0.55	0.63	0.65	0.60	0.58	0.57	0.61	0.04	0.13
1,2,4-TRICHLOROBENZENE	1.00	0.74	0.67	0.75	0.73	0.64	0.74	0.75	0.72	0.04	0.14
1,2,4-TRIMETHYLBENZENE	1.00	0.99	0.91	0.94	0.88	0.80	0.99	0.99	0.93	0.07	0.22
1,2-DIBROMO-3-CHLOROPROPANE	1.00	0.38	0.20	0.47	0.57	0.51	0.52	0.58	0.46	0.13	0.42
1,2-DIBROMOETHANE	1.00	0.71	0.69	0.78	0.79	0.71	0.72	0.76	0.74	0.04	0.12
1,2-DICHLOROBENZENE	1.00	0.95	0.83	0.89	0.91	0.81	0.93	0.95	0.90	0.06	0.18
1,2-DICHLOROETHANE	1.00	1.06	1.08	1.10	1.18	1.14	1.14	1.06	1.11	0.05	0.14
1,2-DICHLOROETHENE (CIS)	1.00	0.97	0.93	1.00	0.91	0.88	0.95	1.01	0.95	0.05	0.15
1,2-DICHLOROETHENE (TRANS)	1.00	0.99	0.95	0.98	0.91	0.91	0.94	1.03	0.96	0.04	0.14
1,2-DICHLOROPROPANE	1.00	1.07	1.00	1.01	1.07	0.97	1.07	1.02	1.03	0.04	0.13
1,3,5-TRICHLOROBENZENE	1.00	0.83	0.88	0.81	0.76	0.74	0.78	0.83	0.80	0.05	0.15
1,3,5-TRIMETHYLBENZENE	1.00	0.97	0.90	0.94	0.88	0.79	0.96	1.00	0.92	0.07	0.22
1,3-DICHLOROBENZENE	1.00	1.03	0.94	0.99	0.89	0.84	0.96	1.02	0.95	0.07	0.22
1,3-DICHLOROPROPANE	1.00	0.86	0.78	0.82	0.85	0.72	0.84	0.77	0.81	0.05	0.16
1,4-DICHLOROBENZENE	1.00	1.02	0.92	1.00	0.97	0.84	0.98	0.97	0.96	0.06	0.19
2,2-DICHLOROPROPANE	1.00	0.75	0.62	0.61	0.62	0.63	0.63	0.64	0.64	0.05	0.15
2-BUTANONE	1.00	0.82	0.64	0.64	0.69	0.66	0.58	0.67	0.67	0.07	0.23
2-CHLOROETHYLVINYLETHER	2.00	0.71	0.46	0.69	0.47	0.50	0.57	0.88	0.61	0.16	0.49
2-CHLOROTOLUENE	1.00	1.04	0.96	1.01	0.91	0.87	1.01	1.05	0.98	0.07	0.21
2-HEXANONE	1.00	0.67	0.69	0.66	0.75	0.60	0.63	0.49	0.64	0.08	0.26
4-CHLOROTOLUENE	1.00	1.01	0.95	0.98	0.93	0.88	0.98	1.08	0.97	0.06	0.20
4-METHYL-2-PENTANONE	1.00	0.86	0.68	0.72	0.74	0.74	0.77	0.59	0.73	0.08	0.26
ACETONE	1.00	1.34	1.25	1.18	1.17	1.41	1.43	1.31	1.30	0.10	0.33
ACROLEIN	1.00	0.21	0.49	1.13	0.41	0.43	0.53	0.48	0.53	0.29	0.90
ACRYLONITRILE	1.00	0.52	0.47	0.56	0.72	0.49	0.41	0.21	0.48	0.15	0.49
BENZENE	1.00	1.16	1.14	1.11	1.01	1.00	1.09	1.22	1.10	0.08	0.25

Date: 2/11/2000 7:46:16 AM

Matrix: AQ

Compound List: 8260 5ML

Instrument: 5972-M

Katahdin Analytical Services
MDL Study

Dates f Analysis	Spike	Data Files
21000 and 021100	1.00; 2.00	M3696-3 ,

Analyst: KMC

Reviewed and Approved by: Date:

File: M0210MDL.XLS

Compound	Spike	M3696	M3697	M3698	M3699	M3700	M3701	M3702	AVG	STD DEV	MDL
BROMOBENZENE	1.00	0.93	0.86	0.91	0.90	0.84	1.00	0.95	0.91	0.05	0.17
BROMOCHLOROMETHANE	1.00	1.00	0.77	0.80	0.97	0.80	0.97	0.86	0.88	0.10	0.30
BROMODICHLOROMETHANE	1.00	0.94	0.87	0.89	0.89	0.84	0.96	0.89	0.90	0.04	0.13
BROMOFORM	1.00	0.71	0.66	0.74	0.70	0.54	0.60	0.66	0.66	0.07	0.22
BROMOMETHANE	1.00	0.52	0.57	0.49	0.66	0.60	0.56	0.51	0.56	0.06	0.18
CARBON DISULFIDE	1.00	1.18	1.15	1.08	1.06	1.03	1.16	1.24	1.13	0.07	0.23
CARBON TETRACHLORIDE	1.00	0.97	0.94	0.93	0.83	0.82	0.93	0.99	0.92	0.07	0.21
CHLOROBENZENE	1.00	1.06	1.01	1.06	0.98	0.94	1.05	1.10	1.03	0.05	0.17
CHLOROETHANE	1.00	1.42	1.37	1.05	1.11	0.98	1.05	1.10	1.15	0.17	0.54
CHLOROFORM	1.00	1.06	0.94	1.03	1.00	0.90	1.04	1.07	1.01	0.06	0.20
CHLOROMETHANE	1.00	0.94	1.02	0.95	0.90	0.90	0.85	1.06	0.95	0.07	0.23
CIS-1,3-DICHLOROPROPENE	1.00	0.71	0.69	0.75	0.76	0.65	0.75	0.77	0.73	0.04	0.14
DIBROMOCHLOROMETHANE	1.00	0.75	0.72	0.79	0.82	0.77	0.79	0.78	0.77	0.03	0.10
DIBROMOMETHANE	1.00	0.81	0.75	0.81	0.88	0.76	0.79	0.79	0.80	0.04	0.13
DICHLORODIFLUOROMETHANE	1.00	0.67	0.67	0.61	0.62	0.59	0.70	0.78	0.66	0.06	0.20
DIETHYL ETHER	1.00	0.73	0.81	0.69	0.71	0.79	0.64	0.70	0.72	0.06	0.18
ETHYLBENZENE	1.00	1.07	0.99	1.01	0.96	0.91	1.00	1.11	1.01	0.07	0.21
FREON-113	1.00	0.95	0.99	0.98	0.82	0.89	0.88	1.02	0.93	0.07	0.22
HEXACHLOROBUTADIENE	1.00	0.99	0.86	0.77	0.84	0.67	0.87	0.85	0.84	0.10	0.31
ISOPROPYLBENZENE	1.00	1.03	0.92	0.95	0.89	0.84	0.98	1.07	0.95	0.08	0.25
M+P-XYLENE	2.00	2.18	2.05	2.02	2.00	1.80	2.09	2.17	2.04	0.13	0.40
METHYLENE CHLORIDE	2.00	2.61	2.53	2.59	2.58	2.87	2.53	2.35	2.58	0.15	0.49
MTBE	1.00	0.68	0.65	0.71	0.73	0.67	0.70	0.66	0.69	0.03	0.09
N-BUTYLBENZENE	1.00	0.92	0.82	0.85	0.76	0.71	0.82	0.87	0.82	0.07	0.22
N-PROPYLBENZENE	1.00	0.96	0.92	0.92	0.85	0.80	0.96	1.01	0.92	0.07	0.22
NAPHTHALENE	1.00	0.32	0.31	0.34	0.33	0.30	0.31	0.30	0.32	0.02	0.05
O-XYLENE	1.00	1.08	1.03	1.04	1.01	0.92	1.06	1.10	1.03	0.06	0.18
P-ISOPROPYLTOLUENE	1.00	0.93	0.88	0.86	0.80	0.74	0.89	0.94	0.86	0.07	0.22
SEC-BUTYLBENZENE	1.00	0.94	0.89	0.87	0.81	0.77	0.94	0.98	0.89	0.08	0.24
STYRENE	1.00	0.90	0.91	0.90	0.88	0.80	0.95	0.93	0.90	0.05	0.15
TERT-BUTYLBENZENE	1.00	1.00	0.93	0.93	0.88	0.82	0.93	0.99	0.93	0.06	0.19
TETRACHLOROETHENE	1.00	1.04	1.00	0.97	0.98	0.86	1.03	1.08	0.99	0.07	0.22
TETRAHYDROF[illegible]	1.00	1.14	0.99	1.08	1.[illegible]	0.93	0.86	0.99	1.00	0.09	0.29
TOLUENE	1.00	1.13	1.07	1.11	1.08	1.02	1.16	1.19	1.11	0.06	0.18

Date: 2/11/20[illegible]46:16 AM

Matrix: AQ

Compound List: 8260 5ML

Instrument: 5972-M

K[illegible]ndin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
21000 and 021100	1.00; 2.00	M3696-3 ,

Analyst: KMC

Reviewed and Approved by: Date:

File: M0210MDL.XLS

Compound	Spike	M3696	M3697	M3698	M3699	M3700	M3701	M3702	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	0.61	0.56	0.61	0.64	0.59	0.63	0.61	0.61	0.03	0.08
TRICHLOROETHENE	1.00	1.07	1.06	1.08	0.93	0.96	1.10	1.20	1.06	0.09	0.28
TRICHLOROFLUOROMETHANE	1.00	0.93	0.88	0.82	0.79	0.78	0.99	1.01	0.89	0.09	0.30
VINYL ACETATE	1.00	0.30	0.18	0.19	0.21	0.08	0.16	0.14	0.18	0.07	0.21
VINYL CHLORIDE	1.00	0.87	0.88	0.76	0.75	0.69	0.83	0.90	0.81	0.08	0.25

Date: 1/28/2000 2:13:20 PM

Matrix: Low level wat rs, extracted by method 3520

Compound List: 8270-TCL-B

Instrument: 5970-X

Katahdin Analytical Services
MDL Study

Dates f Analysis	Spike	Data Files
various	50 ug/L	various
01/20/00	10/20 ug/L	X4283-88,X4290
01/19/00, 01/20/00	2/4 ug/L	X4275, 77, 78, 80-82, 91

Analyst: SW

File: 3520-827.xls

Reviewed and Approved by: JA

Date: 050202 (phenol needs to be redone)

		X4544	X4460	X4385	X3118	X2965	X2964	X2922			
		X4283	X4284	X4285	X4286	X4287	X4288	X4290			
Compound	Spike	X4275	X4277	X4278	X4280	X4281	X4282	X4291	AVG	STD DEV	MDL
1,2,4-TRICHLOROBENZENE	2.00	1.36	1.30	1.42	1.54	1.11	1.34	1.26	1.33	0.13	0.42
1,2-DICHLOROBENZENE	2.00	1.30	1.43	1.35	1.45	1.18	1.27	1.36	1.33	0.09	0.29
1,2-DIPHENYLHYDRAZINE	2.00	1.34	1.15	1.20	1.23	1.07	1.17	1.26	1.20	0.09	0.27
1,3-DICHLOROBENZENE	2.00	1.34	1.20	1.33	1.11	1.07	1.15	1.25	1.21	0.10	0.33
1,4-DICHLOROBENZENE	2.00	1.39	1.15	1.38	1.30	1.17	1.20	1.36	1.28	0.10	0.33
1,4-DIOXANE	2.00	1.64	1.43	1.43	1.91	1.42	1.58	1.54	1.56	0.17	0.55
2,2'-OXYBIS(1-CHLOROPROPANE)	2.00	1.82	1.63	1.83	1.85	1.34	1.64	1.71	1.69	0.18	0.56
2,4,5-TRICHLOROPHENOL	4.00	1.91	2.15	2.39	2.39	1.99	2.29	2.29	2.20	0.19	0.60
2,4,6-TRICHLOROPHENOL	4.00	2.11	2.24	2.09	2.88	1.79	2.47	2.39	2.28	0.35	1.08
2,4-DICHLOROPHENOL	4.00	2.00	2.30	2.01	2.45	2.05	2.37	2.38	2.22	0.20	0.61
2,4-DIMETHYLPHENOL	4.00	1.59	1.71	1.87	1.73	0.87	1.29	1.32	1.48	0.34	1.08
2,4-DINITROPHENOL	20.00	5.62	8.69	6.94	7.64	2.71	8.00	9.49	7.01	2.26	7.12
2,4-DINITROTOLUENE	2.00	0.47	0.54	0.45	0.38	0.20	0.36	0.39	0.40	0.11	0.34
2,6-DINITROTOLUENE	2.00	0.41	0.51	0.59	0.41	0.43	0.31	0.66	0.47	0.12	0.38
2-CHLORONAPHTHALENE	2.00	1.80	1.60	1.76	1.56	1.40	1.80	1.82	1.68	0.16	0.50
2-CHLOROPHENOL	4.00	2.26	2.08	1.90	2.94	2.44	2.69	2.64	2.42	0.37	1.15
2-METHYLNAPHTHALENE	2.00	1.44	1.46	1.62	1.38	1.16	1.35	1.42	1.40	0.14	0.43
2-METHYLPHENOL	4.00	2.61	2.55	2.47	2.75	1.98	2.51	2.58	2.49	0.24	0.76
2-NITROANILINE	2.00	0.51	0.49	0.62	0.45	0.39	0.41	0.54	0.49	0.08	0.25
2-NITROPHENOL	4.00	1.46	1.45	1.29	1.91	1.38	1.62	1.91	1.57	0.25	0.79
3,3'-DICHLOROBENZIDINE	10.00	0.74	1.36	1.23	2.02	2.83	1.03	1.39	1.51	0.70	2.20
3-NITROANILINE	10.00	1.94	3.35	3.20	4.03	5.02	3.27	3.44	3.46	0.93	2.92
4,6-DINITRO-2-METHYLPHENOL	20.00	12.93	17.24	13.53	14.71	16.98	14.50	15.57	15.07	1.63	5.13
4-BROMOPHENYL-PHENYLETHER	2.00	1.35	1.51	1.59	1.43	1.38	1.63	1.60	1.50	0.11	0.36
4-CHLORO-3-METHYLPHENOL	2.00	2.33	2.28	2.47	2.27	1.95	2.38	2.31	2.28	0.16	0.51
4-CHLOROANILINE	2.00	0.33	0.16	0.11	0.11	0.05	0.14	0.38	0.18	0.12	0.39
4-CHLOROPHENYL-PHENYLETHER	2.00	1.39	1.50	1.73	1.62	1.29	1.42	1.57	1.50	0.15	0.47
4-METHYLPHENOL	4.00	2.41	2.14	2.30	2.48	1.91	2.42	2.46	2.30	0.21	0.66
4-NITROANILINE	10.00	3.29	4.37	3.96	4.15	4.50	4.14	4.24	4.09	0.39	1.24
4-NITROPHENOL	4.00	0.69	0.97	1.14	0.83	0.38	0.87	0.59	0.78	0.25	0.79
ACENAPHTHENE	2.00	1.50	1.48	1.52	1.44	1.19	1.42	1.44	1.43	0.11	0.35
ACENAPHT[illegible]ENE	2.00	1.30	1.30	1.39	[illegible]7	0.98	1.31	1.32	1.27	0.13	0.41
ANILINE	2.00	0.39	0.13	0.11	[illegible]9	0.08	0.19	0.33	0.20	0.12	0.36
ANTHRACENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Date: 1/[illegible]0 2:13:20 PM

Matrix: Low level waters, extracted by method 3520

Compound List: 8270-TCL-B

Instrument: 5970-X

[illegible]atahdin Analytical Services
MDL Study

Dates f Analysis	Spike	Data Files
various	50 ug/L	various
01/20/00	10/20 ug/L	X4283-88,X4290
01/19/00, 01/20/00	2/4 ug/L	X4275, 77, 78, 80-82, 91

Analyst: SW

File: 3520-827.xls

Reviewed and Approved by:

Date:

		X4544	X4460	X4385	X3118	X2965	X2964	X2922			
		X4283	X4284	X4285	X4286	X4287	X4288	X4290			
Compound	Spike	X4275	X4277	X4278	X4280	X4281	X4282	X4291	AVG	STD DEV	MDL
BENZIDINE	50.00	16.60	32.87	19.01	30.29	27.71	19.08	28.97	24.93	6.51	20.47
BENZO[A]ANTHRACENE	2.00	1.55	1.62	1.55	1.41	1.50	1.46	1.49	1.51	0.07	0.22
BENZO[A]PYRENE	2.00	0.95	1.19	0.88	0.86	0.86	0.84	1.00	0.94	0.12	0.39
BENZO[B]FLUORANTHENE	2.00	0.99	1.13	1.06	0.98	0.92	0.95	1.03	1.01	0.07	0.22
BENZO[G,H,I]PERYLENE	2.00	1.19	1.19	1.11	0.77	0.82	0.96	0.93	1.00	0.17	0.54
BENZO[K]FLUORANTHENE	2.00	1.66	1.81	1.56	1.56	0.92	1.44	1.57	1.50	0.28	0.88
BENZOIC ACID	4.00	0.31	0.25	0.55	0.14	0.32	0.50	0.28	0.34	0.14	0.45
BENZYL ALCOHOL	2.00	1.18	0.92	1.49	1.48	1.21	1.32	1.76	1.34	0.27	0.85
BIS (2-ETHYLHEXYL) ADIPATE	2.00	0.60	0.79	0.64	0.47	0.50	0.61	0.71	0.62	0.11	0.35
BIS(2-CHLOROETHOXY)METHANE	2.00	1.37	1.36	1.49	1.32	1.11	1.34	1.29	1.33	0.11	0.36
BIS(2-CHLOROETHYL)ETHER	2.00	1.66	1.36	1.50	1.44	1.13	1.28	1.43	1.40	0.17	0.53
BIS(2-ETHYLHEXYL)PHTHALATE	10.00	8.23	8.38	7.35	7.63	9.23	9.84	8.19	8.41	0.87	2.73
BUTYLBENZYLPHTHALATE	2.00	0.86	1.07	0.95	0.77	0.89	0.88	0.92	0.91	0.09	0.29
CARBAZOLE	2.00	1.55	1.51	1.57	1.56	1.24	1.35	1.37	1.45	0.13	0.41
CHRYSENE	2.00	1.64	1.64	1.56	1.55	1.50	1.53	1.52	1.56	0.06	0.18
DI-N-BUTYLPHTHALATE	2.00	1.49	1.64	1.91	1.57	1.49	1.88	1.65	1.66	0.17	0.54
DI-N-OCTYLPHTHALATE	2.00	0.51	0.71	0.61	0.63	0.58	0.57	0.59	0.60	0.06	0.19
DIBENZ[A,H]ANTHRACENE	2.00	0.71	0.80	0.77	0.61	0.52	0.60	0.65	0.67	0.10	0.31
DIBENZOFURAN	2.00	1.45	1.39	1.68	1.47	1.15	1.43	1.52	1.44	0.16	0.50
DIETHYL ADIPATE	2.00	1.24	1.46	1.53	1.41	1.16	1.34	1.52	1.38	0.14	0.44
DIETHYLPHTHALATE	2.00	1.77	2.11	3.40	2.07	1.43	1.75	2.09	2.09	0.63	1.98
DIMETHYL PHTHALATE	2.00	1.54	1.75	1.65	1.54	1.31	1.55	1.60	1.56	0.13	0.42
FLUORANTHENE	2.00	1.57	1.55	1.60	1.66	1.33	1.45	1.30	1.49	0.14	0.43
FLUORENE	2.00	1.43	1.42	1.56	1.36	1.10	1.32	1.38	1.37	0.14	0.44
HEXACHLOROBENZENE	2.00	1.47	1.65	1.68	1.44	1.38	1.57	1.68	1.55	0.12	0.39
HEXACHLOROBUTADIENE	2.00	1.16	1.25	1.33	1.32	1.09	1.38	1.41	1.28	0.12	0.37
HEXACHLOROCYCLOPENTADIENE	10.00	0.54	0.93	0.73	1.35	1.53	1.57	1.25	1.13	0.40	1.26
HEXACHLOROETHANE	2.00	1.02	1.04	1.32	1.21	0.93	0.97	1.17	1.09	0.14	0.45
INDENO[1,2,3-CD]PYRENE	2.00	0.87	0.99	0.93	0.62	0.71	0.70	0.75	0.80	0.14	0.43
ISOPHORONE	2.00	1.46	1.40	1.44	1.33	1.12	1.25	1.38	1.34	0.12	0.38
N-NITROSO-DI-N-PROPYLAMINE	2.00	1.35	1.33	1.37	1.14	0.91	1.00	1.35	1.21	0.19	0.60
N-NITROSODIMETHYLAMINE	2.00	0.23	0.44	0.88	0.51	0.36	1.37	0.86	0.66	0.40	1.24
N-NITROSODIPHENYLAMINE	2.00	3.04	3.31	3.17	2.98	2.84	2.81	3.18	3.05	0.19	0.58

Date: 1/28/2000 2:13:20 PM

Matrix: Low level wat rs, extracted by method 3520

Compound List: 8270-TCL-B

Instrument: 5970-X

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
various	50 ug/L	various
01/20/00	10/20 ug/L	X4283-88,X4290
01/19/00, 01/20/00	2/4 ug/L	X4275, 77, 78, 80-82, 91

Analyst: SW

File: 3520-827.xls

Reviewed and Approved by:

Date:

		X4544	X4460	X4385	X3118	X2965	X2964	X2922			
		X4283	X4284	X4285	X4286	X4287	X4288	X4290			
Compound	Spike	X4275	X4277	X4278	X4280	X4281	X4282	X4291	AVG	STD DEV	MDL
NITROBENZENE	2.00	1.48	1.48	1.50	1.58	1.23	1.30	1.50	1.44	0.12	0.39
PENTACHLOROPHENOL	4.00	1.69	1.74	1.79	1.55	1.24	1.58	1.58	1.60	0.18	0.57
PHENANTHRENE	2.00	1.61	1.63	1.62	1.68	1.41	1.58	1.58	1.59	0.09	0.27
PHENOL	4.00	11.89	10.41	10.03	7.63	8.69	20.63	7.41	10.96	4.55	14.31 *
PYRENE	2.00	1.53	1.58	1.41	1.52	1.42	1.40	1.35	1.46	0.08	0.27
PYRIDINE	2.00	1.08	0.63	0.30	0.76	0.54	0.73	0.49	0.65	0.25	0.77

METHOD DETECTION LIMIT STUDY

Method: SW846 Method 8081 Matix: Water
Prep. Method:Seperatory Funnel 3510 Sample Amount: 1 Liter
Instrument ID: GC08 Channel A Detector: ECD
Column ID: 198 Phase: Rtx-CLPest. Length: 30 Meters ID: 0.53 m Film Thickness: 0.50 um

Compound	SPIKE CONC. (ug/L)	#1 MDL 1 (ug/L)	#2 MDL 2 (ug/L)	#3 MDL 3 (ug/L)	#4 MDL 4 (ug/L)	#5 MDL 5 (ug/L)	#6 MDL 6 (ug/L)	#7 MDL 7 (ug/L)	#8 MDL 8 (ug/L)	Average Conc. (ug/L)	Standard Deviation	MDL (ug/L)	PQL (ug/L)
ALPHA-BHC	0.050	0.0455	0.0472	0.0425	0.0543	0.0500	0.0494	0.0477	0.0496	0.0455	0.0035	0.0104	0.050
BETA-BHC	0.050	0.0490	0.0478	0.0398	0.0558	0.0602	0.0537	0.0586	0.0541	0.0524	0.0066	0.0199	0.050
GAMMA-BHC(LINDANE)	0.050	0.0454	0.0467	0.0403	0.0518	0.0493	0.0498	0.0490	0.0490	0.0477	0.0035	0.0106	0.050
DELTA-BHC	0.050	0.0535	0.0527	0.0516	0.0576	0.0546	0.0568	0.0568	0.0550	0.0548	0.0021	0.0064	0.050
HEPTACHLOR	0.050	0.0379	0.0400	0.0322	0.0453	0.0411	0.0426	0.0416	0.0420	0.0403	0.0039	0.0117	0.050
ALDRIN	0.050	0.0429	0.0451	0.0384	0.0503	0.0467	0.0485	0.0470	0.0474	0.0458	0.0037	0.0111	0.050
HEPTACHLOR EPOXIDE	0.050	0.0467	0.0473	0.0432	0.0539	0.0506	0.0525	0.0511	0.0508	0.0495	0.0035	0.0105	0.050
GAMMA-CHLORDANE	0.050	0.0475	0.0473	0.0441	0.0539	0.0509	0.0531	0.0514	0.0513	0.0499	0.0033	0.0100	0.050
ENDOSULFAN I	0.050	0.0466	0.0471	0.0441	0.0535	0.0510	0.0520	0.0512	0.0511	0.0496	0.0032	0.0097	0.050
ALPHA-CHLORDANE	0.050	0.0469	0.0468	0.0439	0.0538	0.0509	0.0527	0.0512	0.0515	0.0497	0.0034	0.0103	0.050
DIELDRIN	0.050	0.0490	0.0494	0.0466	0.0553	0.0528	0.0531	0.0531	0.0531	0.0516	0.0029	0.0087	0.10
4,4'-DDE	0.050	0.0497	0.0495	0.0488	0.0550	0.0528	0.0538	0.0527	0.0528	0.0519	0.0023	0.0068	0.10
ENDRIN	0.050	0.0476	0.0474	0.0457	0.0530	0.0504	0.0514	0.0507	0.0478	0.0493	0.0025	0.0074	0.10
ENDOSULFAN II	0.050	0.0481	0.0484	0.0491	0.0555	0.0525	0.0539	0.0537	0.0534	0.0518	0.0029	0.0086	0.10
4,4'-DDD	0.050	0.0517	0.0518	0.0527	0.0578	0.0552	0.0574	0.0567	0.0562	0.0549	0.0025	0.0075	0.10
ENDRIN ALDEHYDE	0.050	0.0474	0.0481	0.0510	0.0567	0.0520	0.0555	0.0535	0.0521	0.0520	0.0033	0.0097	0.10
ENDOSULFAN SULFATE	0.050	0.0506	0.0520	0.0531	0.0578	0.0554	0.0561	0.0563	0.0536	0.0544	0.0024	0.0073	0.10
4,4'-DDT	0.050	0.0452	0.0451	0.0468	0.0509	0.0485	0.0502	0.0499	0.0471	0.0480	0.0023	0.0068	0.10
ENDRIN KETONE	0.050	0.0511	0.0512	0.0536	0.0587	0.0557	0.0574	0.0571	0.0564	0.0552	0.0029	0.0086	0.10
METHOXYCHLOR	0.050	0.0402	0.0402	0.0430	0.0474	0.0451	0.0464	0.0459	0.0419	0.0438	0.0028	0.0085	0.50
RESULT FILES		8QA1163.rst	8QA1164.rst	8QA1165.rst	8QA1166.rst	8QA1167.rst	8QA1168.rst	8QA1169.rst	8QA1170.rst				
Date Analyzed		1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00				
Analyst		DBG	DBG	DBG	DBG	DBG	DBG	DBG	DBG		t value =	2.9980	

METHOD DETECTION LIMIT STUDY

Method: SW846 Method 8081 Matix: Water
Prep. Method:Seperatory Funnel 3510 Sample Amount: 1 Liter
Instrument ID: GC08 Channel B Detector: ECD
Column ID: 199 Phase: Rtx-CLPest. I Length: 30 Meters ID: 0.53 m Film Thickness: 0.50 um

Compound	SPIKE CONC. (ug/L)	#1 MDL 1 (ug/L)	#2 MDL 2 (ug/L)	#3 MDL 3 (ug/L)	#4 MDL 4 (ug/L)	#5 MDL 5 (ug/L)	#6 MDL 6 (ug/L)	#7 MDL 7 (ug/L)	#8 MDL 8 (ug/L)	Average Conc. (ug/L)	Standard Deviation	MDL (ug/L)	PQL (ug/L)
ALPHA-BHC	0.050	0.0505	0.0523	0.0476	0.0582	0.0552	0.0549	0.0531	0.0546	0.053	0.0032	0.0097	0.050
GAMMA-BHC(LINDANE)	0.050	0.0510	0.0519	0.0456	0.0582	0.0550	0.0553	0.0542	0.0542	0.053	0.0038	0.0113	0.050
HEPTACHLOR	0.050	0.0396	0.0404	0.0320	0.0454	0.0413	0.0431	0.0401	0.0411	0.040	0.0039	0.0116	0.050
ALDRIN	0.050	0.0544	0.0538	0.0516	0.0622	0.0570	0.0662	0.0597	0.0558	0.058	0.0048	0.0145	0.050
BETA-BHC	0.050	0.0512	0.0506	0.0435	0.0579	0.0533	0.0565	0.0546	0.0544	0.053	0.0045	0.0134	0.050
DELTA-BHC	0.050	0.0583	0.0579	0.0550	0.0628	0.0598	0.0616	0.0608	0.0594	0.059	0.0024	0.0073	0.050
HEPTACHLOR EPOXIDE	0.050	0.0494	0.0497	0.0456	0.0560	0.0529	0.0548	0.0537	0.0531	0.052	0.0034	0.0102	0.050
ENDOSULFAN I	0.050	0.0496	0.0497	0.0467	0.0556	0.0531	0.0545	0.0537	0.0532	0.052	0.0030	0.0091	0.050
GAMMA-CHLORDANE	0.050	0.0487	0.0486	0.0454	0.0547	0.0522	0.0539	0.0526	0.0522	0.051	0.0032	0.0095	0.050
ALPHA-CHLORDANE	0.050	0.0491	0.0489	0.0465	0.0553	0.0525	0.0545	0.0529	0.0523	0.052	0.0030	0.0091	0.050
4,4'-DDE	0.050	0.0512	0.0510	0.0496	0.0563	0.0543	0.0558	0.0548	0.0544	0.053	0.0025	0.0074	0.10
DIELDRIN	0.050	0.0530	0.0531	0.0519	0.0589	0.0562	0.0579	0.0573	0.0568	0.056	0.0026	0.0078	0.10
ENDRIN	0.050	0.0474	0.0469	0.0456	0.0525	0.0499	0.0506	0.0500	0.0467	0.049	0.0024	0.0071	0.10
ENDOSULFAN II	0.050	0.0492	0.0493	0.0506	0.0563	0.0531	0.0543	0.0539	0.0537	0.053	0.0026	0.0077	0.10
4,4'-DDD	0.050	0.0529	0.0529	0.0537	0.0588	0.0561	0.0585	0.0576	0.0569	0.056	0.0024	0.0073	0.10
4,4'-DDT	0.050	0.0470	0.0467	0.0482	0.0522	0.0504	0.0511	0.0511	0.0486	0.049	0.0021	0.0062	0.10
ENDRIN ALDEHYDE	0.050	0.0487	0.0501	0.0523	0.0582	0.0549	0.0570	0.0550	0.0536	0.054	0.0033	0.0098	0.10
ENDOSULFAN SULFATE	0.050	0.0542	0.0549	0.0564	0.0607	0.0586	0.0584	0.0591	0.0566	0.057	0.0022	0.0066	0.10
METHOXYCHLOR	0.050	0.0421	0.0419	0.0441	0.0481	0.0457	0.0463	0.0465	0.0428	0.045	0.0023	0.0069	0.10
ENDRINE KETONE	0.050	0.0555	0.0557	0.0569	0.0623	0.0590	0.0603	0.0602	0.0597	0.059	0.0024	0.0073	0.50
RESULT FILES		8QA2163.rst	8QA2164.rst	8QA2165.rst	8QA2166.rst	8QA2167.rst	8QA2168.rst	8QA2169.rst	8QA2170.rst				
Date Analyzed		1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00	1/19/00				
Analyst		DBG	DBG	DBG	DBG	DBG	DBG	DBG	DBG		t value =	2.9980	

Katahdin Analytical Servic s, Inc.
Method Detection Limit Study

Instrument Name:	TJA Trace 61
Instrument ID:	A
Matrix:	Aqueous
Prep Method:	EPA 3010A
Analysis Method:	EPA 6010B

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)
Aluminum	AQC07A	40.00	42.57	48.86	51.68	48.60	52.27	50.65	54.17	54.56	59.07	61.46	52.39	131.0	5.391	15.208
Antimony	AQC07A	6.00	6.95	7.20	7.63	6.86	8.29	6.37	6.77	6.00	5.75	6.46	6.83	113.8	0.755	2.130
Arsenic	AQC07A	6.00	4.37	4.05	3.76	5.32	4.32	4.76	3.64	5.30	4.14	4.87	4.45	74.2	0.593	1.672
Barium	AQC07A	0.40	O0.78	0.56	0.62	0.62	0.58	0.61	0.59	0.56	0.58	0.61	0.59	148.1	0.024	0.069
Beryllium	AQC07A	0.40	0.46	0.44	0.42	0.41	0.43	0.44	0.39	0.43	0.43	0.42	0.43	106.8	0.019	0.053
Boron	AQC07A	4.00	4.68	4.49	4.00	4.59	3.92	4.90	4.23	3.87	4.69	3.88	4.33	108.1	0.390	1.101
Cadmium	AQC07A	0.60	0.85	0.83	0.81	0.84	0.73	0.69	0.78	0.72	0.74	0.83	0.78	130.3	0.058	0.163
Calcium	AQC07A	20.00	O22.41	16.07	15.34	15.25	14.63	14.40	11.95	11.62	13.38	10.84	13.72	68.6	1.862	5.392
Chromium	AQC07A	2.00	2.44	2.62	2.45	2.59	2.42	2.93	2.62	2.72	2.38	2.85	2.60	130.1	0.187	0.528
Cobalt	AQC07A	2.00	2.79	2.47	3.03	2.31	2.57	2.65	2.54	2.53	2.35	2.85	2.61	130.5	0.226	0.636
Copper	AQC07A	2.00	2.64	2.24	2.46	2.20	2.02	2.37	2.08	2.54	1.98	2.28	2.28	114.1	0.222	0.626
Iron	AQC13A	30.00	41.72	44.03	38.56	29.91	51.38	38.19	32.58	40.11	56.69	34.02	40.72	135.7	8.300	23.416
Lead	AQC07A	4.00	5.96	5.65	4.20	4.97	6.09	5.79	5.20	5.01	5.58	5.84	5.43	135.7	0.581	1.639
Magnesium	AQC07A	20.00	24.32	22.39	22.41	24.23	22.96	25.67	23.66	21.75	22.84	22.58	23.28	116.4	1.179	3.327
Manganese	AQC07A	0.40	0.64	0.62	0.76	0.63	0.67	0.60	0.68	0.72	0.75	0.73	0.68	170.0	0.057	0.162
Molybdenum	AQC07A	3.00	4.06	3.98	4.11	3.60	2.87	3.66	4.23	3.23	3.32	3.38	3.64	121.5	0.446	1.259
Nickel	AQC07A	2.00	2.35	2.23	3.13	3.16	2.42	2.53	2.38	2.49	2.47	2.78	2.59	129.7	0.323	0.912
Selenium	AQC07A	8.00	5.93	5.66	7.77	6.34	7.19	7.40	o3.91	7.64	6.54	6.11	6.73	84.1	0.785	2.273
Silver	AQC07A	3.00	4.40	3.78	3.55	3.74	3.07	3.91	3.37	3.26	3.42	3.71	3.62	120.7	0.377	1.064
Strontium	AQC13A	0.10	o0.00	0.07	0.07	0.09	0.07	0.05	0.07	0.09	0.07	0.06	0.07	71.1	0.013	0.037
Thallium	AQC07A	10.00	11.55	10.39	10.46	11.64	12.04	10.56	12.53	10.53	10.44	11.70	11.18	111.8	0.794	2.241
Tin	AQC07A	6.00	7.02	6.54	5.08	5.47	7.01	6.92	5.69	5.83	5.89	7.63	6.31	105.1	0.828	2.336
Titanium	AQC07A	1.00	0.68	0.75	0.96	1.11	1.06	0.93	0.75	0.84	0.67	0.82	0.86	85.7	0.153	0.433
Vanadium	AQC07A	2.00	2.19	2.30	2.05	2.50	2.19	2.20	2.71	2.48	2.23	2.27	2.31	115.6	0.195	0.550
Zinc	AQC07A	1.00	1.63	1.45	1.69	1.39	1.49	1.65	1.63	1.52	1.74	1.84	1.60	160.3	0.139	0.393

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by th Q-test
Outliers have not been used in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	**TJA ICAP 61**
Instrument ID:	**B**
Matrix:	**Aqueous**
Prep Method:	**EPA 3010A**
Analysis Method:	**EPA 6010B**

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)
Aluminum	BQC03A	50.00	45.58	52.44	46.11	50.73	49.73	45.76	52.26	51.19	49.15	47.83	49.08	98.2	2.639	7.443
Antimony	BQC03A	20.00	7.54	5.89	14.68	5.83	20.20	8.82	8.74	26.48	15.21	17.45	13.08	65.4	6.899	19.462
Barium	BQC03A	1.50	1.22	1.55	1.20	1.19	1.19	1.20	1.36	1.75	1.27	1.03	1.30	86.4	0.209	0.589
Beryllium	BQC03A	1.00	1.06	0.77	1.05	0.78	o0.51	0.78	0.79	1.05	1.03	0.77	0.90	89.8	0.142	0.412
Boron	BQC03A	20.00	16.51	O22.21	16.34	16.07	16.17	17.44	17.24	15.49	18.35	18.71	16.92	84.6	1.087	3.149
Cadmium	BQC03A	5.00	3.36	7.23	5.40	5.87	5.41	4.50	4.92	5.54	4.77	4.61	5.16	103.2	1.013	2.859
Calcium	BQC03A	50.00	28.51	32.21	38.17	37.33	39.37	45.75	45.29	46.04	40.76	43.28	39.67	79.3	5.882	16.593
Chromium	BQC03A	10.00	6.06	6.02	9.01	11.84	2.95	2.98	5.92	9.22	3.21	9.03	6.62	66.2	3.074	8.671
Cobalt	BQC03A	10.00	12.59	11.72	12.09	11.93	10.05	11.66	12.73	12.30	9.37	10.16	11.46	114.6	1.172	3.307
Copper	BQC03A	5.00	4.94	3.91	2.91	2.82	2.86	2.89	2.83	5.99	3.20	3.89	3.62	72.5	1.084	3.057
Iron	BQC03A	15.00	18.06	14.29	15.45	17.20	13.69	18.18	15.19	14.59	18.82	21.93	16.74	111.6	2.567	7.240
Magnesium	BQC03A	50.00	55.83	61.05	51.23	53.40	59.16	53.90	53.44	67.49	48.72	54.16	55.84	111.7	5.417	15.283
Manganese	BQC03A	2.00	2.60	2.59	2.58	O8.95	2.56	2.58	2.55	2.62	O2.68	2.59	2.58	129.2	0.022	0.066
Nickel	BQC03A	20.00	25.21	14.84	29.67	16.56	23.25	22.58	18.93	15.06	18.64	17.94	20.27	101.3	4.799	13.537
Potassium	BQC03A	1000.00	1175.97	983.53	722.52	883.37	1017.34	691.45	886.00	951.63	968.00	1002.18	928.20	92.8	142.263	401.324
Selenium	BQC03A	50.00	50.27	59.29	35.11	36.57	47.77	55.37	53.04	63.79	49.74	50.08	50.10	100.2	8.954	25.260
Silicon	BQC03A	50.00	43.26	35.85	29.84	27.23	19.53	11.37	22.08	18.07	20.33	17.48	24.50	49.0	9.590	27.053
Silver	BQC03A	9.00	10.70	10.67	10.67	10.62	10.62	10.64	O11.41	10.73	9.97	9.86	10.50	116.6	0.333	0.966
Sodium	BQC03A	50.00	69.84	67.14	61.61	65.22	59.81	67.91	64.67	66.94	66.44	72.80	66.24	132.5	3.748	10.572
Vanadium	BQC03A	10.00	9.59	11.43	11.41	11.29	9.42	9.47	9.41	9.66	11.80	11.46	10.49	104.9	1.048	2.955
Zinc	BQC03A	3.00	6.24	4.24	4.19	3.90	3.65	5.17	3.39	5.08	3.96	3.99	4.38	146.0	0.863	2.434

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Katahdin Analytical S rvic s, Inc.
Method D t ction Limit Study

Instrum nt Nam :	Le man PS200
Instrument ID:	D
Matrix:	Aqueous
Prep Method:	EPA 7470A
Analysis Method:	EPA 7470A

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)
Mercury	DQB17B	0.10	0.08	0.10	0.10	0.11	0.11	0.13	0.06	0.08	0.10		0.10	95.6	0.020	0.057

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
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Outliers have not been included in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	TJA Trace ICP
Instrument ID:	A
Matrix:	Soil
Prep Method:	EPA 3050B
Analysis Method:	EPA 6010B

El ment	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)	MDL (mg/kg)
Aluminum	AQC07A	40.00	63.52	69.41	63.21	64.66	62.05	64.46	79.64	73.07	89.28	O121.36	69.92	174.8	9.253	26.795	2.680
Antimony	AQC07A	6.00	6.75	5.53	6.17	7.64	6.00	6.58	5.64	5.58	5.75	5.14	6.08	101.3	0.737	2.078	0.208
Arsenic	AQC07A	6.00	4.61	4.75	3.38	4.50	4.21	3.76	3.38	3.96	4.25	3.48	4.03	67.1	0.514	1.451	0.145
Barium	AQC07A	0.40	1.20	2.64	1.00	2.75	1.69	5.33	1.99	1.69	1.02	3.63	2.29	573.5	1.360	3.837	0.384
Beryllium	AQC07A	0.40	0.45	0.46	0.45	o0.41	0.48	0.49	0.50	0.49	0.47	0.46	0.47	118.1	0.019	0.054	0.005
Boron	AQC07A	4.00	7.93	9.04	5.75	7.82	11.79	13.00	10.38	16.90	9.52	17.39	10.95	273.8	3.855	10.875	1.088
Cadmium	AQC07A	0.60	0.83	0.75	0.78	0.75	0.71	0.79	0.80	0.86	0.93	0.84	0.80	134.0	0.064	0.180	0.018
Calcium	AQC07A	20.00	14.84	15.05	14.20	13.29	13.14	15.54	13.81	O30.82	O55.14	O117.35	14.27	71.3	0.913	2.869	0.287
Chromium	AQC07A	2.00	2.95	3.29	2.79	3.46	2.91	2.75	3.03	3.10	2.85	2.66	2.98	149.0	0.249	0.702	0.070
Cobalt	AQC07A	2.00	2.69	2.80	2.50	2.63	2.43	2.23	2.24	2.32	2.29	2.11	2.42	121.2	0.226	0.637	0.064
Copper	AQC07A	2.00	2.13	O2.79	2.17	2.26	2.35	1.83	2.28	2.03	1.99	2.01	2.12	105.8	0.167	0.482	0.048
Iron	AQC07A	30.00	30.41	32.25	40.03	39.45	34.81	41.82	55.21	34.29	49.30	37.75	39.53	131.8	7.716	21.768	2.177
Lead	AQC07A	4.00	5.01	5.25	6.08	5.00	5.16	4.98	5.45	5.76	5.20	5.14	5.30	132.6	0.362	1.020	0.102
Magnesium	AQC07A	20.00	22.00	25.89	22.17	23.93	22.16	20.30	23.02	25.36	26.23	O33.14	23.45	117.3	2.033	5.888	0.589
Manganese	AQC07A	0.40	0.75	0.63	0.62	0.80	0.62	0.55	0.63	0.61	0.62	0.75	0.66	164.5	0.080	0.224	0.022
Molybdenum	AQC07A	3.00	4.67	4.08	3.54	4.25	3.00	3.20	2.86	3.88	3.89	3.66	3.70	123.4	0.570	1.609	0.161
Nickel	AQC07A	2.00	3.08	2.89	2.88	2.50	2.50	2.79	2.49	3.06	2.49	2.54	2.72	136.1	0.245	0.691	0.069
Selenium	AQC07A	8.00	7.07	7.47	6.01	6.94	7.50	5.47	6.51	7.99	7.09	6.48	6.85	85.7	0.752	2.120	0.212
Silver	AQC07A	3.00	3.65	4.28	3.53	4.46	3.70	3.33	3.23	3.67	3.48	3.57	3.69	123.0	0.390	1.100	0.110
Strontium	AQC13A	0.10	0.11	0.14	0.09	0.13	0.11	0.15	0.13	0.11	0.22	0.27	0.15	146.0	0.056	0.159	0.016
Thallium	AQC07A	10.00	8.15	8.61	8.81	12.15	7.91	9.69	10.64	9.52	8.95	9.01	9.34	93.4	1.259	3.553	0.355
Tin	AQC07A	6.00	40.92	41.31	43.17	41.09	40.30	39.66	39.79	39.80	38.59	37.24	40.19	669.8	1.611	4.543	0.454
Titanium	AQC07A	1.00	1.48	1.56	1.35	1.38	0.84	1.27	1.39	1.86	2.25	1.95	1.53	153.3	0.398	1.123	0.112
Vanadium	AQC07A	2.00	2.28	2.68	2.53	2.21	2.16	2.34	2.31	2.77	1.99	2.58	2.39	119.3	0.247	0.698	0.070
Zinc	AQC07A	1.00	1.45	2.04	1.83	1.22	1.30	1.55	2.34	1.48	1.21	2.35	1.68	167.7	0.438	1.234	0.123

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Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	TJA ICAP 61
Instrument ID:	B
Matrix:	Soil
Pr p Method:	EPA 3050B
Analysis Method:	EPA 6010B

Element	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)	MDL (mg/kg)
Aluminum	BQC03A	50.00	66.19	59.21	58.52	61.83	60.51	58.23	58.13	66.64	57.88	o46.12	60.79	121.6	3.433	9.942	0.994
Antimony	BQC03A	20.00	23.11	-1.23	20.59	16.94	17.20	21.51	12.39	21.38	7.90	9.26	14.91	74.5	7.762	21.896	2.190
Barium	BQC03A	1.50	2.38	1.47	1.40	O7.79	2.03	1.84	2.75	2.54	1.99	1.44	1.98	132.1	0.497	1.440	0.144
Beryllium	BQC03A	1.00	1.60	1.60	1.34	1.62	1.30	1.32	1.31	1.32	1.32	1.32	1.41	140.5	0.140	0.394	0.039
Boron	BQC03A	20.00	20.05	19.93	21.19	21.05	22.65	24.96	26.20	29.58	23.34	19.58	22.85	114.3	3.237	9.132	0.913
Cadmium	BQC03A	5.00	6.68	6.77	3.56	3.92	4.85	6.23	6.23	6.69	3.89	6.18	5.50	110.0	1.301	3.669	0.367
Calcium	BQC03A	50.00	50.71	39.42	51.26	42.85	45.94	39.23	43.78	39.85	52.55	38.06	44.37	88.7	5.486	15.476	1.548
Chromium	BQC03A	10.00	9.64	O12.79	9.15	6.42	9.75	9.69	6.48	9.58	9.52	9.47	8.86	88.6	1.375	3.981	0.398
Cobalt	BQC03A	10.00	12.82	12.36	8.29	9.03	10.00	14.50	11.61	12.30	10.21	10.97	11.21	112.1	1.882	5.310	0.531
Copper	BQC03A	5.00	5.40	4.34	3.01	3.28	3.39	2.33	4.39	4.31	3.25	4.21	3.79	75.8	0.892	2.515	0.251
Iron	BQC03A	15.00	18.86	26.82	12.09	27.11	16.90	21.03	13.82	16.57	13.95	10.12	17.73	118.2	5.813	16.398	1.640
Magnesium	BQC03A	50.00	59.77	55.16	58.81	44.85	57.15	70.11	62.72	56.47	57.61	60.24	58.29	116.6	6.334	17.869	1.787
Manganese	BQC03A	2.00	2.04	2.72	1.94	2.71	2.74	2.73	2.73	2.71	3.37	1.34	2.50	125.2	0.570	1.609	0.161
Nick l	BQC03A	20.00	18.62	13.59	19.86	24.59	24.08	10.66	6.26	20.07	26.48	19.47	18.37	91.8	6.432	18.146	1.815
Potassium	BQC03A	1000.00	1096.94	1061.07	1008.53	849.58	1208.46	1424.61	1171.93	1061.26	1243.58	1136.56	1126.25	112.6	153.287	432.422	43.242
Selenium	BQC03A	50.00	46.63	52.38	65.29	56.00	66.56	38.76	56.49	52.19	65.40	49.79	54.95	109.9	8.985	25.347	2.535
Silicon	BQC03A	50.00	81.02	76.16	91.33	104.98	93.44	97.63	125.78	O192.14	127.44	91.31	98.79	197.6	17.878	51.775	5.178
Silver	BQC03A	9.00	10.09	9.22	9.07	9.18	8.38	9.21	9.24	10.05	9.18	8.31	9.19	102.1	0.577	1.628	0.163
Sodium	BQC03A	50.00	75.80	78.97	63.60	O127.81	75.54	79.58	95.87	92.62	77.01	67.02	78.45	156.9	10.455	30.279	3.028
Vanadium	BQC03A	10.00	14.04	14.01	11.55	9.95	14.13	10.03	12.04	11.95	11.89	11.84	12.14	121.4	1.522	4.295	0.429
Zinc	BQC03A	3.00	5.15	3.32	4.07	5.05	3.61	4.64	4.40	4.30	4.24	3.72	4.25	141.7	0.598	1.686	0.169

Notes: "O" denotes a high statistical outlier, as determined by the Q-test
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Outliers have not been included in calculation of MDLs.

Katahdin Analytical S rvic s, Inc.
Method Detection Limit Study

Instrument Name:	Leeman PS200
Instrument ID:	D
Matrix:	Soil
Prep Method:	EPA 7471A
Analysis Method:	EPA 7471A

Elem nt	Run ID	Spike (ug/L)	Rep.1 (ug/L)	Rep.2 (ug/L)	Rep.3 (ug/L)	Rep.4 (ug/L)	Rep.5 (ug/L)	Rep.6 (ug/L)	Rep.7 (ug/L)	Rep.8 (ug/L)	Rep.9 (ug/L)	Rep.10 (ug/L)	AVG (ug/L)	Rcvy (%)	Std.Dev. (ug/L)	MDL (ug/L)	MDL (mg/kg)
Mercury	DQB01A	0.10	o0.08	0.13	0.14	0.16	0.13	0.14	0.16	0.14	0.16		0.14	144.0	0.013	0.038	0.0038

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"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Appendix D

Analytical Report Form I Data Tables

D.1 Ground-Water Samples – Sites 1 and 3
D.2 Ground-Water Samples – Eastern Plume
D.3 Aqueous Samples – Ground-Water Extraction and Treatment System
D.4 Surface Water Samples – Sites 1 and 3
D.5 Surface Water Samples – Eastern Plume
D.6 Leachate Station Seep Samples – Sites 1 and 3
D.7 Leachate Station Seep Samples – Eastern Plume
D.8 Sediment Samples – Sites 1 and 3
D.9 Diffusion Samples – Eastern Plume

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: ( )
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WR1364 - *
KATAHDIN PROJECT MANAGER
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.	VOC									
✓	BN-18-EP-SW10	4/26/01 / 1100	W	9	X					MS/MSD				
✓	BN-18-EP-SW11	4/26/01 / 1035	W	3	X									
✓	BN-18-EP-SW12	4/26/01 / 0945	W	3	X									
✓	BN-18-EP-SW13	4/26/01 / 1145	W	3	X									
	BN-18-EP-SW14	4/26/01 / 1020	W	3	X									
✓	BN-18-EP-SWYD1	4/26/01 / —	W	3	X									
✓	BN-18-EP-SEEP 10	4/26/01 / 1105	W	3	X									
✓	BN-18-EP-SEEP11	4/26/01 / 1120	W	3	X									
		/												
		/												
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		/												
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		/												
		/												

COMMENTS: Begins + ends SOG BN-18-EP-SW10

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	4-26-01 1500	[signature]		04-26-01 1655	Shelly Hill
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA

Contact: Sue Chase

Phone #: ( ) 798-5977

Fax #: ( )

Address

City

State

Zip Code

Purchase Order #

Proj. Name / No.

Katahdin Quote #

Bill (if different than above)

Address

Sampler (Print / Sign)

Copies To:

LAB USE ONLY

WORK ORDER #: WR1361

KATAHDIN PROJECT MANAGER

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.	VOC (Filt. ☐Y☐N)	metals (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
✓	BN-18-S1-SP1	4-26-01/ 1430	W	4	X	X								
	~~BN-18-S1 SP3~~	~~4-26-01/~~						DRY	(NO	SAMPLE)				
✓	BN-18-S1-SP4	4-26-01/ 1440	W	4	X	X								
✓	BN-18-S1-SP5	4-26-01/ 1510	W	4	X	X								
✓	BN-18-S1-SP9	4-26-01/ 1500	W	4	X	X								
✓	BN-18-S1-SPYD1	4-26-01/ -	W	4	X	X								
✓	BN-18-S1-SW4	4-26-01/ 1415	W	4	X	X								
✓	BN-18-S1-SW7	4-26-01/ 1400	W	4	X	X								
✓	BN-18-S1-SW8	4-26-01/ 1340	W	4	X	X								
✓	BN-18-S1-SW9	4-26-01/ 1320	W	11	X	X			MS/MSD					
✓	BN-18-S1-QS001SW	4-24-01/ 1540	W	4	X	X								
✓	BN-18-S1-QS002SD	4-24-01/ 1550	W	4	X	X								
✓	BN-18-S1-QD001	4-24-01/ 1530	W	4	X	X								
✓	BN-18-S1-SWXD1	4-26-01/ -	W	4	X	X								
		/												
		/												

COMMENTS Begins + Ends SDG BN-18-S1SP1

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Sue Chase	4-26-01 1500	[signature]		04-26-01 1655	Shelly Hill
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ o

Client: EA Engineering
Contact: Sue Chase
Phone #: (207) 778-5977
Fax #: (207) 778-96
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WR1384
KATAHDIN PROJECT MANAGER:
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.	VOC (Filt. ☐Y☐N)	Metals (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
	BN-3-S2-MW103	4-27-01/ 1150	W	4	X	X								
	BN-3-S2-MW104	4-27-01/ 1010	W	4	X	X								
	BN-3-S2-MW241	4-27-01/ 1340	W	11	X	X			MS/MSD					
	BN-3-S2-MW242	4-27-01/ 1235	W	4	X	X								
	BN-3-S2-MW243	4-27-01/ 1110	W	4	X	X								
	BN-3-S2-MWX01	4-27-01/ —	W	4	X	X								
	BN-3-S2-QT003	4-27-01/ 1430	W	3	X									
		/												
		/												
		/												
		/												
		/												
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		/												
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COMMENTS: Begins + Ends SOG

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/27/01 1635	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (207) 793-3311
FORM # CHN-OF-CSTDY

ORIGINAL 000007

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1364-7
SDG: BN18EPSW10
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-SEEP10	AQ	4/26/01	4/26/01	5/2/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1364-7
SDG: BN18EPSW10
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-SEEP10	AQ	4/26/01	4/26/01	5/2/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	81	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1364-8
SDG: BN18EPSW10
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-SEEP11	AQ	4/26/01	4/26/01	5/2/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1364-8
SDG: BN18EPSW10
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-SEEP11	AQ	4/26/01	4/26/01	5/2/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	99	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1384-7
SDG: WR1384
Report Date: 5/22/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-3-S2-QT003	AQ	4/27/01	4/27/01	5/3/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NAS BRUNSWICK

Lab Number: WR1384-7
SDG: WR1384
Report Date: 5/22/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-3-S2-QT003	AQ	4/27/01	4/27/01	5/3/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	78	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-9
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QS001SW	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-9
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QS001SW	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-11
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QD001	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-11
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QD001	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		

Report Notes: J

Appendix D.8

Sediment Samples
Sites 1 and 3

APPENDIX D.8

SAMPLE KEY – SITES 1 AND 3
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Sediment Samples	
BN-18-S1-LT1	SED-01
BN-18-S1-LT3	SED-03
BN-18-S1-LT4	SED-04
BN-18-S1-LT5	SED-05
BN-18-S1-LT9	SED-09
BN-18-S1-LTXD1SD	SED-09 – Duplicate
Trip Blank	
BN-3-S2-QT003	Trip Blank
Equipment Rinsate Blank	
BN-18-S1-QS002SD	Rinse Blank
Source Water Blank	
BN-18-S1-QD001	Source Water

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA

Contact: Sue Chase

Phone #: ( ) 798-5977

Fax #: ( )

Address: [redacted]

City:

State:

Zip Code:

Purchase Order #:

Proj. Name / No.:

Katahdin Quote #:

Bill (if different than above):

Address:

Sampler (Print / Sign):

Copies To:

LAB USE ONLY

WORK ORDER #: WR1361

KATAHDIN PROJECT MANAGER

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.	Filt. ☐Y☐N VOC	Filt. ☐Y☐N Metals	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
✓	BN-18-SI-SP1	4-26-01/ 1430	W	4	X	X								
	~~BN-18-SI SP3~~	~~4-26-01/~~						DRY	(NO	SAMPLE)				
✓	BN-18-SI-SP4	4-26-01/ 1440	W	4	X	X								
✓	BN-18-SI-SP5	4-26-01/ 1510	W	4	X	X								
✓	BN-18-SI-SP9	4-26-01/ 1500	W	4	X	X								
✓	BN-18-SI-SPYD1	4-26-01/ -	W	4	X	X								
✓	BN-18-SI-SW4	4-26-01/ 1415	W	4	X	X								
✓	BN-18-SI-SW7	4-26-01/ 1400	W	4	X	X								
✓	BN-18-SI-SW8	4-26-01/ 1340	W	4	X	X								
✓	BN-18-SI-SW9	4-26-01/ 1320	W	11	X	X			MS/MSD					
✓	BN-18-SI-QS001SW	4-24-01/ 1540	W	4	X	X								
✓	BN-18-SI-QS002SD	4-24-01/ 1550	W	4	X	X								
✓	BN-18-SI-QD001	4-24-01/ 1530	W	4	X	X								
✓	BN-18-SI-SWXD1	4-26-01/ -	W	4	X	X								
		/												
		/												

COMMENTS Begins + Ends SDG BN18-SISP1

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Sue Chase	4-26-01 1500	[signature]		04-26-01 1655	Shelly Hill
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA Engineering
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-[illegible]
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WR1384
KATAHDIN PROJECT MANAGER:
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.	VOC (Filt. ☐Y☐N)	Metals (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
	BN-3-S2-MW103	4-27-01/ 1150	W	4	X	X								
	BN-3-S2-MW104	4-27-01/ 1010	W	4	X	X								
	BN-3-S2-MW241	4-27-01/ 1340	W	11	X	X			MS/MSD					
	BN-3-S2-MW242	4-27-01/ 1235	W	4	X	X								
	BN-3-S2-MW243	4-27-01/ 1110	W	4	X	X								
	BN-3-S2-MWXD1	4-27-01/ —	W	4	X	X								
	BN-3-S2-QT003	4-27-01/ 1430	W	3	X									
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COMMENTS: Begins + Ends SOG

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/27/01 1635	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: ( )
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WR1385 - *
KATAHDIN PROJECT MANAGER
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.	VOC methanol (Filt. ☐Y ☐N)	VOC Sodium bisulfate (Filt. ☐Y ☐N)	metals (Filt. ☐Y ☐N)	% Solid (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
	BN-18-SI-LT1	4-27-01/1060	SD	15	X	X	X	X		MS/MSD				
	BN-18-SI-LT3	4-27-01/1030	SD	6	X	X	X	X						
	BN-18-SI-LT4	4-27-01/1100	SD	6	X	X	X	X						
	BN-18-SI-LT5	4-27-01/1115	SD	6	X	X	X	X						
	BN-18-SI-LT9	4-27-01/1130	SD	6	X	X	X	X						
	BN-18-SI-LTXDISD	4-27-01/—	SD	6	X	X	X	X						
		/												
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COMMENTS: Begins + Ends SDG

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	4/27/01 1635	Indra [illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-1
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 60
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT1	SL	4/27/01	4/27/01	5/2/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<3	ug/Kg	1.4	3	2.0
BROMOMETHANE	<3	ug/Kg	1.4	3	2.0
VINYL CHLORIDE	<3	ug/Kg	1.4	3	2.0
CHLOROETHANE	<3	ug/Kg	1.4	3	2.0
METHYLENE CHLORIDE	B8	ug/Kg	1.4	1	1.0
ACETONE	24	ug/Kg	1.4	7	5
CARBON DISULFIDE	<1	ug/Kg	1.4	1	1.0
1,1-DICHLOROETHENE	<1	ug/Kg	1.4	1	1.0
1,1-DICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/Kg	1.4	1	1.0
CHLOROFORM	<1	ug/Kg	1.4	1	1.0
1,2-DICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
2-BUTANONE	<7	ug/Kg	1.4	7	5
1,1,1-TRICHLOROETHANE	1	ug/Kg	1.4	1	1.0
CARBON TETRACHLORIDE	<1	ug/Kg	1.4	1	1.0
BROMODICHLOROMETHANE	<1	ug/Kg	1.4	1	1.0
1,2-DICHLOROPROPANE	<1	ug/Kg	1.4	1	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/Kg	1.4	1	1.0
TRICHLOROETHENE	<1	ug/Kg	1.4	1	1.0
DIBROMOCHLOROMETHANE	<1	ug/Kg	1.4	1	1.0
1,1,2-TRICHLOROETHANE	<1	ug/Kg	1.4	1	1.0
BENZENE	<7	ug/Kg	1.4	7	5.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/Kg	1.4	1	1.0
BROMOFORM	<1	ug/Kg	1.4	1	1.0
4-METHYL-2-PENTANONE	<4	ug/Kg	1.4	4	3
2-HEXANONE	<6	ug/Kg	1.4	6	4
TETRACHLOROETHENE	<1	ug/Kg	1.4	1	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/Kg	1.4	1	1.0
TOLUENE	<7	ug/Kg	1.4	7	5.0
CHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
ETHYLBENZENE	<7	ug/Kg	1.4	7	5.0
STYRENE	<1	ug/Kg	1.4	1	1.0
TOTAL XYLENES	<7	ug/Kg	1.4	7	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-1
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 60
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT1	SL	4/27/01	4/27/01	5/2/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
1,3-DICHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
1,4-DICHLOROBENZENE	<1	ug/Kg	1.4	1	1.0
DIBROMOFLUOROMETHANE	88	%	1.4		
TOLUENE-D8	89	%	1.4		
P-BROMOFLUOROBENZENE	87	%	1.4		
1,2-DICHLOROETHANE-D4	85	%	1.4		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-LT1

Matrix: SOIL **SDG Name:** WR1385

Percent Solids: 60.4 **Lab Sample ID:** WR1385-001

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	5400			P	1
7440-36-0	ANTIMONY	0.56	U	N	P	1
7440-38-2	ARSENIC	1.9			P	1
7440-39-3	BARIUM	19.6			P	1
7440-41-7	BERYLLIUM	0.59	B		P	1
7440-43-9	CADMIUM	0.47	B		P	1
7440-70-2	CALCIUM	2500			P	1
7440-47-3	CHROMIUM	10.2			P	1
7440-48-4	COBALT	17.5			P	1
7440-50-8	COPPER	6.8			P	1
7439-89-6	IRON	6940			P	1
7439-92-1	LEAD	12.9			P	1
7439-95-4	MAGNESIUM	1920		N	P	1
7439-96-5	MANGANESE	140		N	P	1
7439-97-6	MERCURY	1.2		*	CV	1
7440-02-0	NICKEL	21.7			P	1
7440-09-7	POTASSIUM	922			P	1
7782-49-2	SELENIUM	0.82	B		P	1
7440-22-4	SILVER	0.40	B		P	1
7440-23-5	SODIUM	121	B		P	1
7440-28-0	THALLIUM	0.73	U		P	1
7440-62-2	VANADIUM	19.9			P	1
7440-66-6	ZINC	39.3			P	1

Color Before: BROWN Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-2
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 70
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT3	SL	4/27/01	4/27/01	5/1/01	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<4	ug/Kg	1.9	4	2.0
BROMOMETHANE	<4	ug/Kg	1.9	4	2.0
VINYL CHLORIDE	<4	ug/Kg	1.9	4	2.0
CHLOROETHANE	<4	ug/Kg	1.9	4	2.0
METHYLENE CHLORIDE	19	ug/Kg	1.9	2	1.0
ACETONE	280	ug/Kg	1.9	10	5
CARBON DISULFIDE	<2	ug/Kg	1.9	2	1.0
1,1-DICHLOROETHENE	<2	ug/Kg	1.9	2	1.0
1,1-DICHLOROETHANE	<2	ug/Kg	1.9	2	1.0
TOTAL 1,2-DICHLOROETHENE	<2	ug/Kg	1.9	2	1.0
CHLOROFORM	<2	ug/Kg	1.9	2	1.0
1,2-DICHLOROETHANE	<2	ug/Kg	1.9	2	1.0
2-BUTANONE	<10	ug/Kg	1.9	10	5
1,1,1-TRICHLOROETHANE	<2	ug/Kg	1.9	2	1.0
CARBON TETRACHLORIDE	<2	ug/Kg	1.9	2	1.0
BROMODICHLOROMETHANE	<2	ug/Kg	1.9	2	1.0
1,2-DICHLOROPROPANE	<2	ug/Kg	1.9	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/Kg	1.9	2	1.0
TRICHLOROETHENE	<2	ug/Kg	1.9	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/Kg	1.9	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/Kg	1.9	2	1.0
BENZENE	<10	ug/Kg	1.9	10	5.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/Kg	1.9	2	1.0
BROMOFORM	<2	ug/Kg	1.9	2	1.0
4-METHYL-2-PENTANONE	<6	ug/Kg	1.9	6	3
2-HEXANONE	<8	ug/Kg	1.9	8	4
TETRACHLOROETHENE	<2	ug/Kg	1.9	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/Kg	1.9	2	1.0
TOLUENE	<10	ug/Kg	1.9	10	5.0
CHLOROBENZENE	<2	ug/Kg	1.9	2	1.0
ETHYLBENZENE	<10	ug/Kg	1.9	10	5.0
STYRENE	<2	ug/Kg	1.9	2	1.0
TOTAL XYLENES	<10	ug/Kg	1.9	10	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-2
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 70
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT3	SL	4/27/01	4/27/01	5/1/01	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<2	ug/Kg	1.9	2	1.0
1,3-DICHLOROBENZENE	<2	ug/Kg	1.9	2	1.0
1,4-DICHLOROBENZENE	<2	ug/Kg	1.9	2	1.0
DIBROMOFLUOROMETHANE	85	%	1.9		
TOLUENE-D8	82	%	1.9		
P-BROMOFLUOROBENZENE	82	%	1.9		
1,2-DICHLOROETHANE-D4	83	%	1.9		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-LT3

Matrix: SOIL **SDG Name:** WR1385

Percent Solids: 69.9 **Lab Sample ID:** WR1385-002

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	4230			P	1
7440-36-0	ANTIMONY	0.48	U	N	P	1
7440-38-2	ARSENIC	3.1			P	1
7440-39-3	BARIUM	31.5			P	1
7440-41-7	BERYLLIUM	0.26	B		P	1
7440-43-9	CADMIUM	0.03	U		P	1
7440-70-2	CALCIUM	1580			P	1
7440-47-3	CHROMIUM	11.6			P	1
7440-48-4	COBALT	4.3			P	1
7440-50-8	COPPER	5.1			P	1
7439-89-6	IRON	25500			P	1
7439-92-1	LEAD	4.1			P	1
7439-95-4	MAGNESIUM	2030		N	P	1
7439-96-5	MANGANESE	1540		N	P	5
7439-97-6	MERCURY	0.01	U		CV	1
7440-02-0	NICKEL	10.4			P	1
7440-09-7	POTASSIUM	781			P	1
7782-49-2	SELENIUM	0.40	U		P	1
7440-22-4	SILVER	0.14	U		P	1
7440-23-5	SODIUM	49.9	B		P	1
7440-28-0	THALLIUM	2.6			P	1
7440-62-2	VANADIUM	18.9			P	1
7440-66-6	ZINC	14.9			P	1

Color Before: BROWN Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-3
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 16
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT4	SL	4/27/01	4/27/01	5/2/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<72	ug/Kg	36	72	2.0
BROMOMETHANE	<72	ug/Kg	36	72	2.0
VINYL CHLORIDE	490	ug/Kg	36	72	2.0
CHLOROETHANE	<72	ug/Kg	36	72	2.0
METHYLENE CHLORIDE	B240	ug/Kg	36	36	1.0
ACETONE	2600	ug/Kg	36	180	5
CARBON DISULFIDE	490	ug/Kg	36	36	1.0
1,1-DICHLOROETHENE	J29	ug/Kg	36	36	1.0
1,1-DICHLOROETHANE	630	ug/Kg	36	36	1.0
TOTAL 1,2-DICHLOROETHENE	2200	ug/Kg	36	36	1.0
CHLOROFORM	<36	ug/Kg	36	36	1.0
1,2-DICHLOROETHANE	<36	ug/Kg	36	36	1.0
2-BUTANONE	610	ug/Kg	36	180	5
1,1,1-TRICHLOROETHANE	<36	ug/Kg	36	36	1.0
CARBON TETRACHLORIDE	<36	ug/Kg	36	36	1.0
BROMODICHLOROMETHANE	<36	ug/Kg	36	36	1.0
1,2-DICHLOROPROPANE	<36	ug/Kg	36	36	1.0
CIS-1,3-DICHLOROPROPENE	<36	ug/Kg	36	36	1.0
TRICHLOROETHENE	<36	ug/Kg	36	36	1.0
DIBROMOCHLOROMETHANE	<36	ug/Kg	36	36	1.0
1,1,2-TRICHLOROETHANE	<36	ug/Kg	36	36	1.0
BENZENE	<180	ug/Kg	36	180	5.0
TRANS-1,3-DICHLOROPROPENE	<36	ug/Kg	36	36	1.0
BROMOFORM	<36	ug/Kg	36	36	1.0
4-METHYL-2-PENTANONE	<110	ug/Kg	36	110	3
2-HEXANONE	<140	ug/Kg	36	140	4
TETRACHLOROETHENE	<36	ug/Kg	36	36	1.0
1,1,2,2-TETRACHLOROETHANE	<36	ug/Kg	36	36	1.0
TOLUENE	<180	ug/Kg	36	180	5.0
CHLOROBENZENE	230	ug/Kg	36	36	1.0
ETHYLBENZENE	<180	ug/Kg	36	180	5.0
STYRENE	<36	ug/Kg	36	36	1.0
TOTAL XYLENES	<180	ug/Kg	36	180	5.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-3
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 16
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT4	SL	4/27/01	4/27/01	5/2/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	B400	ug/Kg	36	36	1.0
1,3-DICHLOROBENZENE	B37	ug/Kg	36	36	1.0
1,4-DICHLOROBENZENE	B870	ug/Kg	36	36	1.0
DIBROMOFLUOROMETHANE	101	%	36		
TOLUENE-D8	83	%	36		
P-BROMOFLUOROBENZENE	70	%	36		
1,2-DICHLOROETHANE-D4	105	%	36		

Report Notes: B, J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-LT4

Matrix: SOIL **SDG Name:** WR1385

Percent Solids: 15.9 **Lab Sample ID:** WR1385-003

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	4120			P	1
7440-36-0	ANTIMONY	3.82	U	N	P	2
7440-38-2	ARSENIC	59.7			P	2
7440-39-3	BARIUM	69.0			P	2
7440-41-7	BERYLLIUM	0.62	B		P	1
7440-43-9	CADMIUM	0.25	U		P	2
7440-70-2	CALCIUM	15100			P	1
7440-47-3	CHROMIUM	12.1			P	1
7440-48-4	COBALT	15.4	B		P	1
7440-50-8	COPPER	7.9	B		P	1
7439-89-6	IRON	153000			P	2
7439-92-1	LEAD	55.9			P	2
7439-95-4	MAGNESIUM	1230		N	P	1
7439-96-5	MANGANESE	477		N	P	1
7439-97-6	MERCURY	3.6			CV	1
7440-02-0	NICKEL	12.7	B		P	1
7440-09-7	POTASSIUM	504	B		P	1
7782-49-2	SELENIUM	3.2	B		P	2
7440-22-4	SILVER	0.54	U		P	1
7440-23-5	SODIUM	481	B		P	1
7440-28-0	THALLIUM	4.97	U		P	2
7440-62-2	VANADIUM	30.6			P	1
7440-66-6	ZINC	55.5			P	1

Color Before: BROWN Texture: FINE

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-4
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 20
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT5	SL	4/27/01	4/27/01	5/1/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<12	ug/Kg	6.0	12	2.0
BROMOMETHANE	<12	ug/Kg	6.0	12	2.0
VINYL CHLORIDE	<12	ug/Kg	6.0	12	2.0
CHLOROETHANE	<12	ug/Kg	6.0	12	2.0
METHYLENE CHLORIDE	35	ug/Kg	6.0	6	1.0
ACETONE	78	ug/Kg	6.0	30	5
CARBON DISULFIDE	<6	ug/Kg	6.0	6	1.0
1,1-DICHLOROETHENE	<6	ug/Kg	6.0	6	1.0
1,1-DICHLOROETHANE	<6	ug/Kg	6.0	6	1.0
TOTAL 1,2-DICHLOROETHENE	<6	ug/Kg	6.0	6	1.0
CHLOROFORM	<6	ug/Kg	6.0	6	1.0
1,2-DICHLOROETHANE	<6	ug/Kg	6.0	6	1.0
2-BUTANONE	<30	ug/Kg	6.0	30	5
1,1,1-TRICHLOROETHANE	<6	ug/Kg	6.0	6	1.0
CARBON TETRACHLORIDE	<6	ug/Kg	6.0	6	1.0
BROMODICHLOROMETHANE	<6	ug/Kg	6.0	6	1.0
1,2-DICHLOROPROPANE	<6	ug/Kg	6.0	6	1.0
CIS-1,3-DICHLOROPROPENE	<6	ug/Kg	6.0	6	1.0
TRICHLOROETHENE	<6	ug/Kg	6.0	6	1.0
DIBROMOCHLOROMETHANE	<6	ug/Kg	6.0	6	1.0
1,1,2-TRICHLOROETHANE	<6	ug/Kg	6.0	6	1.0
BENZENE	<30	ug/Kg	6.0	30	5.0
TRANS-1,3-DICHLOROPROPENE	<6	ug/Kg	6.0	6	1.0
BROMOFORM	<6	ug/Kg	6.0	6	1.0
4-METHYL-2-PENTANONE	<18	ug/Kg	6.0	18	3
2-HEXANONE	<24	ug/Kg	6.0	24	4
TETRACHLOROETHENE	<6	ug/Kg	6.0	6	1.0
1,1,2,2-TETRACHLOROETHANE	<6	ug/Kg	6.0	6	1.0
TOLUENE	<30	ug/Kg	6.0	30	5.0
CHLOROBENZENE	<6	ug/Kg	6.0	6	1.0
ETHYLBENZENE	<30	ug/Kg	6.0	30	5.0
STYRENE	<6	ug/Kg	6.0	6	1.0
TOTAL XYLENES	<30	ug/Kg	6.0	30	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-4
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 20
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT5	SL	4/27/01	4/27/01	5/1/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	B18	ug/Kg	6.0	6	1.0
1,3-DICHLOROBENZENE	<6	ug/Kg	6.0	6	1.0
1,4-DICHLOROBENZENE	<6	ug/Kg	6.0	6	1.0
DIBROMOFLUOROMETHANE	84	%	6.0		
TOLUENE-D8	87	%	6.0		
P-BROMOFLUOROBENZENE	90	%	6.0		
1,2-DICHLOROETHANE-D4	86	%	6.0		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-LT5

Matrix: SOIL **SDG Name:** WR1385

Percent Solids: 20.5 **Lab Sample ID:** WR1385-004

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	487			P	1
7440-36-0	ANTIMONY	15.61	U	N	P	10
7440-38-2	ARSENIC	1740			P	10
7440-39-3	BARIUM	27.9			P	10
7440-41-7	BERYLLIUM	0.15	B		P	1
7440-43-9	CADMIUM	1.03	U		P	10
7440-70-2	CALCIUM	1340			P	1
7440-47-3	CHROMIUM	2.44	U		P	10
7440-48-4	COBALT	14.4			P	1
7440-50-8	COPPER	0.36	U		P	1
7439-89-6	IRON	596000			P	10
7439-92-1	LEAD	6.33	U		P	10
7439-95-4	MAGNESIUM	108		N	P	1
7439-96-5	MANGANESE	620		N	P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	4.1	B		P	1
7440-09-7	POTASSIUM	114	B		P	1
7782-49-2	SELENIUM	13.00	U		P	10
7440-22-4	SILVER	0.44	U		P	1
7440-23-5	SODIUM	78.70	U		P	1
7440-28-0	THALLIUM	21.0	B		P	10
7440-62-2	VANADIUM	4.0	B		P	1
7440-66-6	ZINC	0.20	U		P	1

Color Before: BROWN Texture: FINE

Color After: COLORLESS Clarity After: CLEAR

Comments:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-5
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 25
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT9	SL	4/27/01	4/27/01	5/1/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<9	ug/Kg	4.3	9	2.0
BROMOMETHANE	<9	ug/Kg	4.3	9	2.0
VINYL CHLORIDE	<9	ug/Kg	4.3	9	2.0
CHLOROETHANE	<9	ug/Kg	4.3	9	2.0
METHYLENE CHLORIDE	<4	ug/Kg	4.3	4	1.0
ACETONE	180	ug/Kg	4.3	22	5
CARBON DISULFIDE	19	ug/Kg	4.3	4	1.0
1,1-DICHLOROETHENE	<4	ug/Kg	4.3	4	1.0
1,1-DICHLOROETHANE	17	ug/Kg	4.3	4	1.0
TOTAL 1,2-DICHLOROETHENE	<4	ug/Kg	4.3	4	1.0
CHLOROFORM	<4	ug/Kg	4.3	4	1.0
1,2-DICHLOROETHANE	<4	ug/Kg	4.3	4	1.0
2-BUTANONE	48	ug/Kg	4.3	22	5
1,1,1-TRICHLOROETHANE	<4	ug/Kg	4.3	4	1.0
CARBON TETRACHLORIDE	<4	ug/Kg	4.3	4	1.0
BROMODICHLOROMETHANE	<4	ug/Kg	4.3	4	1.0
1,2-DICHLOROPROPANE	<4	ug/Kg	4.3	4	1.0
CIS-1,3-DICHLOROPROPENE	<4	ug/Kg	4.3	4	1.0
TRICHLOROETHENE	<4	ug/Kg	4.3	4	1.0
DIBROMOCHLOROMETHANE	<4	ug/Kg	4.3	4	1.0
1,1,2-TRICHLOROETHANE	<4	ug/Kg	4.3	4	1.0
BENZENE	<22	ug/Kg	4.3	22	5.0
TRANS-1,3-DICHLOROPROPENE	<4	ug/Kg	4.3	4	1.0
BROMOFORM	<4	ug/Kg	4.3	4	1.0
4-METHYL-2-PENTANONE	<13	ug/Kg	4.3	13	3
2-HEXANONE	<17	ug/Kg	4.3	17	4
TETRACHLOROETHENE	<4	ug/Kg	4.3	4	1.0
1,1,2,2-TETRACHLOROETHANE	<4	ug/Kg	4.3	4	1.0
TOLUENE	<22	ug/Kg	4.3	22	5.0
CHLOROBENZENE	30	ug/Kg	4.3	4	1.0
ETHYLBENZENE	<22	ug/Kg	4.3	22	5.0
STYRENE	<4	ug/Kg	4.3	4	1.0
TOTAL XYLENES	<22	ug/Kg	4.3	22	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-5
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 25
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LT9	SL	4/27/01	4/27/01	5/1/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	B410	ug/Kg	4.3	4	1.0
1,3-DICHLOROBENZENE	<4	ug/Kg	4.3	4	1.0
1,4-DICHLOROBENZENE	140	ug/Kg	4.3	4	1.0
DIBROMOFLUOROMETHANE	91	%	4.3		
TOLUENE-D8	82	%	4.3		
P-BROMOFLUOROBENZENE	76	%	4.3		
1,2-DICHLOROETHANE-D4	94	%	4.3		

Report Notes: B

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-LT9

Matrix: SOIL **SDG Name:** WR1385

Percent Solids: 25.3 **Lab Sample ID:** WR1385-005

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	12700			P	1
7440-36-0	ANTIMONY	5.71	U	N	P	5
7440-38-2	ARSENIC	265			P	5
7440-39-3	BARIUM	42.5			P	5
7440-41-7	BERYLLIUM	0.70	B		P	1
7440-43-9	CADMIUM	0.38	U		P	5
7440-70-2	CALCIUM	3340			P	1
7440-47-3	CHROMIUM	12.9			P	1
7440-48-4	COBALT	40.3			P	1
7440-50-8	COPPER	8.7			P	1
7439-89-6	IRON	268000			P	5
7439-92-1	LEAD	20.9			P	5
7439-95-4	MAGNESIUM	2320		N	P	1
7439-96-5	MANGANESE	703		N	P	1
7439-97-6	MERCURY	0.13			CV	1
7440-02-0	NICKEL	15.7			P	1
7440-09-7	POTASSIUM	1350			P	1
7782-49-2	SELENIUM	4.76	U		P	5
7440-22-4	SILVER	0.32	U		P	1
7440-23-5	SODIUM	57.61	U		P	1
7440-28-0	THALLIUM	7.42	U		P	5
7440-62-2	VANADIUM	29.4			P	1
7440-66-6	ZINC	34.3			P	1

Color Before: BROWN Texture: FINE

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-6
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 24
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LTXD15D	SL	4/27/01	4/27/01	5/1/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<9	ug/Kg	4.5	9	2.0
BROMOMETHANE	<9	ug/Kg	4.5	9	2.0
VINYL CHLORIDE	<9	ug/Kg	4.5	9	2.0
CHLOROETHANE	<9	ug/Kg	4.5	9	2.0
METHYLENE CHLORIDE	22	ug/Kg	4.5	4	1.0
ACETONE	210	ug/Kg	4.5	22	5
CARBON DISULFIDE	25	ug/Kg	4.5	4	1.0
1,1-DICHLOROETHENE	<4	ug/Kg	4.5	4	1.0
1,1-DICHLOROETHANE	26	ug/Kg	4.5	4	1.0
TOTAL 1,2-DICHLOROETHENE	<4	ug/Kg	4.5	4	1.0
CHLOROFORM	<4	ug/Kg	4.5	4	1.0
1,2-DICHLOROETHANE	<4	ug/Kg	4.5	4	1.0
2-BUTANONE	35	ug/Kg	4.5	22	5
1,1,1-TRICHLOROETHANE	<4	ug/Kg	4.5	4	1.0
CARBON TETRACHLORIDE	<4	ug/Kg	4.5	4	1.0
BROMODICHLOROMETHANE	<4	ug/Kg	4.5	4	1.0
1,2-DICHLOROPROPANE	<4	ug/Kg	4.5	4	1.0
CIS-1,3-DICHLOROPROPENE	<4	ug/Kg	4.5	4	1.0
TRICHLOROETHENE	7	ug/Kg	4.5	4	1.0
DIBROMOCHLOROMETHANE	<4	ug/Kg	4.5	4	1.0
1,1,2-TRICHLOROETHANE	<4	ug/Kg	4.5	4	1.0
BENZENE	<22	ug/Kg	4.5	22	5.0
TRANS-1,3-DICHLOROPROPENE	<4	ug/Kg	4.5	4	1.0
BROMOFORM	<4	ug/Kg	4.5	4	1.0
4-METHYL-2-PENTANONE	<14	ug/Kg	4.5	14	3
2-HEXANONE	<18	ug/Kg	4.5	18	4
TETRACHLOROETHENE	<4	ug/Kg	4.5	4	1.0
1,1,2,2-TETRACHLOROETHANE	<4	ug/Kg	4.5	4	1.0
TOLUENE	<22	ug/Kg	4.5	22	5.0
CHLOROBENZENE	120	ug/Kg	4.5	4	1.0
ETHYLBENZENE	<22	ug/Kg	4.5	22	5.0
STYRENE	<4	ug/Kg	4.5	4	1.0
TOTAL XYLENES	<22	ug/Kg	4.5	22	5.0

Report Notes: B, E, O-13, $

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-6
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 24
Method: EPA 8260
Date Analyzed: 5/1/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LTXD15D	SL	4/27/01	4/27/01	5/1/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	BE2300	ug/Kg	4.5	4	1.0
1,3-DICHLOROBENZENE	<4	ug/Kg	4.5	4	1.0
1,4-DICHLOROBENZENE	820	ug/Kg	4.5	4	1.0
DIBROMOFLUOROMETHANE	92	%	4.5		
TOLUENE-D8	77	%	4.5		
P-BROMOFLUOROBENZENE	$50	%	4.5		
1,2-DICHLOROETHANE-D4	94	%	4.5		

Report Notes: B, E, O-13, $

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-6RA
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 24
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LTXD15D	SL	4/27/01	4/27/01	5/2/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/Kg	4.8	10	2.0
BROMOMETHANE	<10	ug/Kg	4.8	10	2.0
VINYL CHLORIDE	<10	ug/Kg	4.8	10	2.0
CHLOROETHANE	J8	ug/Kg	4.8	10	2.0
METHYLENE CHLORIDE	B38	ug/Kg	4.8	5	1.0
ACETONE	280	ug/Kg	4.8	24	5
CARBON DISULFIDE	46	ug/Kg	4.8	5	1.0
1,1-DICHLOROETHENE	<5	ug/Kg	4.8	5	1.0
1,1-DICHLOROETHANE	11	ug/Kg	4.8	5	1.0
TOTAL 1,2-DICHLOROETHENE	<5	ug/Kg	4.8	5	1.0
CHLOROFORM	<5	ug/Kg	4.8	5	1.0
1,2-DICHLOROETHANE	<5	ug/Kg	4.8	5	1.0
2-BUTANONE	69	ug/Kg	4.8	24	5
1,1,1-TRICHLOROETHANE	<5	ug/Kg	4.8	5	1.0
CARBON TETRACHLORIDE	<5	ug/Kg	4.8	5	1.0
BROMODICHLOROMETHANE	<5	ug/Kg	4.8	5	1.0
1,2-DICHLOROPROPANE	<5	ug/Kg	4.8	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/Kg	4.8	5	1.0
TRICHLOROETHENE	<5	ug/Kg	4.8	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/Kg	4.8	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/Kg	4.8	5	1.0
BENZENE	<24	ug/Kg	4.8	24	5.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/Kg	4.8	5	1.0
BROMOFORM	<5	ug/Kg	4.8	5	1.0
4-METHYL-2-PENTANONE	<14	ug/Kg	4.8	14	3
2-HEXANONE	<19	ug/Kg	4.8	19	4
TETRACHLOROETHENE	<5	ug/Kg	4.8	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/Kg	4.8	5	1.0
TOLUENE	<24	ug/Kg	4.8	24	5.0
CHLOROBENZENE	47	ug/Kg	4.8	5	1.0
ETHYLBENZENE	<24	ug/Kg	4.8	24	5.0
STYRENE	<5	ug/Kg	4.8	5	1.0
TOTAL XYLENES	<24	ug/Kg	4.8	24	5.0

Report Notes: B, J, O-13

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1385-6RA
SDG: WR1385
Report Date: 5/21/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: 24
Method: EPA 8260
Date Analyzed: 5/2/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-LTXD15D	SL	4/27/01	4/27/01	5/2/01	JEY	5035	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	B920	ug/Kg	4.8	5	1.0
1,3-DICHLOROBENZENE	<5	ug/Kg	4.8	5	1.0
1,4-DICHLOROBENZENE	B330	ug/Kg	4.8	5	1.0
DIBROMOFLUOROMETHANE	95	%	4.8		
TOLUENE-D8	81	%	4.8		
P-BROMOFLUOROBENZENE	65	%	4.8		
1,2-DICHLOROETHANE-D4	96	%	4.8		

Report Notes: B, J, O-13

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-LTXD15D

Matrix: SOIL **SDG Name:** WR1385

Percent Solids: 24.2 **Lab Sample ID:** WR1385-006

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	15400			P	1
7440-36-0	ANTIMONY	2.77	U	N	P	2
7440-38-2	ARSENIC	184			P	2
7440-39-3	BARIUM	51.2			P	2
7440-41-7	BERYLLIUM	0.95	B		P	1
7440-43-9	CADMIUM	0.18	U		P	2
7440-70-2	CALCIUM	4250			P	1
7440-47-3	CHROMIUM	21.0			P	1
7440-48-4	COBALT	126			P	1
7440-50-8	COPPER	13.3			P	1
7439-89-6	IRON	176000			P	5
7439-92-1	LEAD	29.5			P	2
7439-95-4	MAGNESIUM	3350		N	P	1
7439-96-5	MANGANESE	595		N	P	1
7439-97-6	MERCURY	0.22			CV	1
7440-02-0	NICKEL	26.6			P	1
7440-09-7	POTASSIUM	1880			P	1
7782-49-2	SELENIUM	3.6	B		P	2
7440-22-4	SILVER	0.39	U		P	1
7440-23-5	SODIUM	213	B		P	1
7440-28-0	THALLIUM	3.60	U		P	2
7440-62-2	VANADIUM	40.5			P	1
7440-66-6	ZINC	48.5			P	1

Color Before: BROWN Texture: FINE

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1384-7
SDG: WR1384
Report Date: 5/22/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-3-S2-QT003	AQ	4/27/01	4/27/01	5/3/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	JB0.6	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1384-7
SDG: WR1384
Report Date: 5/22/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-3-S2-QT003	AQ	4/27/01	4/27/01	5/3/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	78	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-10
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QS002SD	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

eport Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-10
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QS002SD	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	102	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes: J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-18-S1-QS002SD

Matrix: WATER **SDG Name:** BN18S1SP1

Percent Solids: 0.00 **Lab Sample ID:** WR1361-010

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	90.0	B	NE	P	1
7440-36-0	ANTIMONY	3.65	U		P	1
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	0.20	B	E	P	1
7440-41-7	BERYLLIUM	0.19	B		P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-70-2	CALCIUM	7.68	U		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7440-48-4	COBALT	0.92	U		P	1
7440-50-8	COPPER	0.84	U		P	1
7439-89-6	IRON	36.5	B		P	1
7439-92-1	LEAD	2.3	B		P	1
7439-95-4	MAGNESIUM	7.5	B		P	1
7439-96-5	MANGANESE	0.71	B		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7440-02-0	NICKEL	0.98	B		P	1
7440-09-7	POTASSIUM	15.10	U	E	P	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1
7440-23-5	SODIUM	362	B		P	1
7440-28-0	THALLIUM	4.74	U		P	1
7440-62-2	VANADIUM	0.52	U		P	1
7440-66-6	ZINC	0.55	B		P	1

Color Before: COLORLESS Clarity Before: CLEAR

Color After: COLORLESS Clarity After: CLEAR

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-11
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QD001	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NASB

Lab Number: WR1361-11
SDG: BN18S1SP1
Report Date: 5/15/01
PO No. : 29600.47
Project: LTMP EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/30/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-S1-QD001	AQ	4/24/01	4/26/01	4/30/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		

eport Notes: J

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: BN-18-S1-QD001
Matrix: WATER
SDG Name: BN18S1SP1
Percent Solids: 0.00
Lab Sample ID: WR1361-011

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	86.4	B	NE	P	1
7440-36-0	ANTIMONY	3.65	U		P	1
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	0.15	U	E	P	1
7440-41-7	BERYLLIUM	0.24	B		P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-70-2	CALCIUM	47.4	B		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7440-48-4	COBALT	0.92	U		P	1
7440-50-8	COPPER	0.84	U		P	1
7439-89-6	IRON	18.0	B		P	1
7439-92-1	LEAD	2.4	B		P	1
7439-95-4	MAGNESIUM	7.06	U		P	1
7439-96-5	MANGANESE	0.30	B		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7440-02-0	NICKEL	0.72	U		P	1
7440-09-7	POTASSIUM	15.10	U	E	P	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1
7440-23-5	SODIUM	246	B		P	1
7440-28-0	THALLIUM	4.74	U		P	1
7440-62-2	VANADIUM	0.52	U		P	1
7440-66-6	ZINC	0.47	U		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

Appendix D.9

Diffusion Samples
Eastern Plume

APPENDIX D.9

SAMPLE KEY – EASTERN PLUME
NAVAL AIR STATION, BRUNSWICK

Sample Designation	Sample Station
Diffusion Samples	
BN-18-EP-DS105A	MW-105A
BN-18-EP-DS205	MW-205
BN-18-EP-DSXD2	MW-205 - Duplicate
BN-18-EP-DS224	MW-224
BN-18-EP-DS225AS	MW-225
BN-18-EP-DS225AM	MW-225
BN-18-EP-DS225AD	MW-225
BN-18-EP-DS229A	MW-229A
BN-18-EP-DSXD4	MW-229A – Duplicate
BN-18-EP-DS230AS	MW-230A
BN-18-EP-DS230AM	MW-230A
BN-18-EP-DS230AD	MW-230A
BN-18-EP-DS231AS	MW-231A
BN-18-EP-DS231AM	MW-231A
BN-18-EP-DS231AD	MW-231A
BN-18-EP-DS231BS	MW-231B
BN-18-EP-DS231BM	MW-231B
BN-18-EP-DS231BD	MW-231B
BN-18-EP-DS303S	MW-303
BN-18-EP-DS303M	MW-303
BN-18-EP-DS303D	MW-303
BN-18-EP-DS305S	MW-305
BN-18-EP-DS305M	MW-305
BN-18-EP-DS305D	MW-305
BN-18-EP-DS306	MW-306
BN-18-EP-DS308S	MW-308
BN-18-EP-DS308M	MW-308
BN-18-EP-DS308D	MW-308
BN-18-EP-DS309BS	MW-309B
BN-18-EP-DS309BM	MW-309B
BN-18-EP-DS309BD	MW-309B
BN-18-EP-DS311	MW-311
BN-18-EP-DSXD6	MW-311 - Duplicate
BN-18-EP-DS313S	MW-313
BN-18-EP-DS313M	MW-313
BN-18-EP-DS313D	MW-313
BN-18-EP-DS318S	MW-318
BN-18-EP-DS318M	MW-318
BN-18-EP-DS318D	MW-318
BN-18-EP-DS319	MW-319

BN-18-EP-DS330S	MW-330
BN-18-EP-DS330M	MW-330
BN-18-EP-DS330D	MW-330
BN-18-EP-DS331	MW-331
BN-18-EP-DSXD7	MW-331 – Duplicate
BN-18-EP-DS332	MW-332
BN-18-EP-DSXD1	MW-332 – Duplicate
BN-18-EP-DS333S	MW-333
BN-18-EP-DS333M	MW-333
BN-18-EP-DS333D	MW-333
BN-18-EP-DS334S	MW-334
BN-18-EP-DS334M	MW-334
BN-18-EP-DS334D	MW-334
BN-18-EP-DS1104S	MW-1104
BN-18-EP-DS1104M	MW-1104
BN-18-EP-DS1104D	MW-1104
BN-18-EP-DS212	MW-NASB-212
BN-18-EP-DSXD8	MW-NASB-212 - Duplicate
BN-18-EP-DS132S	P-132
BN-18-EP-DS132M	P-132
BN-18-EP-DS132D	P-132
Trip Blank	
BN-18-EP-QT004	Trip Blank
BN-18-EP-QT005	Trip Blank
Field Blank	
BN-18-EP-DSQS1	Field Blank
Source Water Blank	
BN-18-EP-DSQD1	Source Water Blank

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

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Page ____ of ____

Client	Contact	Phone #	Fax #
EA	Sue Chase	(207) 798-5977	( )

Address	City	State	Zip Code

Purchase Order #	Proj. Name / No.	Katahdin Quote #

Bill (if different than above)	Address

Sampler (Print / Sign)	Copies To:

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WORK ORDER #: WR1439 - *

KATAHDIN PROJECT MANAGER _____

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.	VOC (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 ☐N
✓	BN-18-EP-P111	4/30/01 / 1005	W	3	X									
✓	BN-18-EP-DS330S	4/30/01 / 1025	W	3	X									
✓	BN-18-EP DS330M	4/30/01 / 1026	W	3	X									
✓	BN-18-EP-DS330D	4/30/01 / 1027	W	3	X									
✓	BN-18-EP-MW330	4/30/01 / 1135	W	3	X									
✓	BN-18-EP-DS308S	4/30/01 / 1155	W	3	X									
✓	BN-18-EP-DS308M	4/30/01 / 1158	W	3	X									
✓	BN-18-EP-DS308D	4/30/01 / 1200	W	3	X									
✓	BN-18-EP-MW308	4/30/01 / 1255	W	3	X									
✓	BN-18-EP-DS309BS	4/30/01 / 1358	W	3	X									
✓	BN-18-EP-DS309BM	4/30/01 / 1400	W	3	X									
✓	BN-18-EP-DS-309BD	4/30/01 / 1403	W	3	X									
✓	BN-18-EP-MW-309B	4/30/01 / 1455	W	3	X									
✓	BN-18-EP-P106	4/30/01 / 1610	W	3	X									
✓	BN-18-EP-PXD9	4/30/01 / [redacted]	W	3	X									
✓✓✓	BN-18-EP-MW225A	4/30/01 / 1225	W	9	X		MS/MSD							

COMMENTS: Begins SDG BN-18-EP-P111

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	5-1-01 1530	[signature]			M. Meteiro 5/1/01 1715
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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FORM # CHN-OF-CSTDY

ORIGINAL 0000005

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Westbrook, ME 04092
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Fax: (207) 775-4029

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EA	Sue Chase	(207) 798-5977	( )

Address	City	State	Zip Code

Purchase Order #	Proj. Name / No.	Katahdin Quote #

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ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC (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 ☐N
✓	BN-18-EP-DS231AS	5/1/01/0915	W	3	✓									
✓	BN-18-EP-DS231AM	5/1/01/0917	W	3	✓									
✓	BN-18-EP-MW231A	5/1/01/1055	W	3	✓									
✓	BN-18-EP-MWXDS	5/1/01/—	W	3	✓									
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		/												

COMMENTS ENDS SDG BN-18-EP-P111

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-1-01 1530	[signature]			M Meterman 5/1/01 1715
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

ORIGINAL 0000006

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Tel: (207) 874-2400
Fax: (207) 775-4029

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Client: EA

Contact: Sue Chase

Phone #: (207) 798-5977

Fax #: ( )

Address: City: State: Zip Code:

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ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC	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☐N
✓	BN-18-EP DS311	5-1-01/915	W	3	X										
✓	BN-18-EP- DSYD6	5-1-01/—	W	3	X										
✓	BN-18-EP DS332	5-1-01/925	W	3	X										
✓	BN-18-EP DSYD1	5-1-01/—	W	3	X										
	BN-18-EP MW207A	5-1-01/1055	W	3	X										
✓	BN-18-EP DS331	5-1-01/1100	W	3	X										
✓	BN-18-EP DS319	5-1-01/1120	W	3	X										
✓	BN-18-EP -QT004	5-1-01/1500	W	3	X										
✓	BN-18-EP -DSQD1	5-1-01/1200	W	3	X										
✓	BN-18-EP DS1104S	5-1-01/1310	W	3	X										
✓	BN-18-EP DS1104M	5-1-01/1320	W	3	X										
✓	BN-18-EP DS1104D	5-1-01/1325	W	3	X										
✓	BN-18-EP MW1104	5-1-01/1430	W	9	X			MS/MSD							
	~~BN-18-EP~~	/	W		X										
	~~BN-18-EP~~	/	W		X										
	~~BN-18-EP~~	/	W		X										

COMMENTS: Begins SDG BN-18-EP-DS311

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-1-01 1530	[signature]			M Meteria 5/1/01 1715
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (877) 782-3311

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KAS-COC1 (R.0909)

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Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

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Page ____ of ____

Client: EA
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: ( )

Address
City
State
Zip Code

Purchase Order #
Proj. Name / No.
Katahdin Quote #

Bill (if different than above)
Address

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WORK ORDER #: WR1501
KATAHDIN PROJECT MANAGER

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ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Filt. ☐Y☐N VOC	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
✓	BN-18-EP-DS313S	5-2 / 915	W	3	X									
✓	BN-18-EP-DS313M	5-2 / 920	W	3	X									
✓	BN-18-EP DS313D	5-2 / 925	W	3	X									
✓	BN-18-EP-MW313	5-2 / 1025	W	3	X									
✓	BN-18-EP DS333S	5-2 / 1030	W	3	X									
✓	BN-18-EP DS333M	5-2 / 1040	W	3	X									
✓	BN-18-EP DS333D	5-2 / 1045	W	3	X									
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		/												
		/												
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		/												

COMMENTS: EnDS SDG BN-18-EP-DS311

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-3-01 1500	[signature]	[signature]	5/3 SOC PM	Shelly Well
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

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Client: EA
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-4636
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

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WORK ORDER #: WR1438
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
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ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC (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 ☐N
	BN-18-EP-DS231AD	5-1-01/920	W	3	X									
	BN-18-EP-DS231BS	5-1-01/1045	W	3	X									
	BN-18-EP-DS231BM	5-1-01/1047	W	3	X									
	BN-18-EP-DS231BD	5-1-01/1050	W	3	X									
	BN-18-EP-MW231B	5-1-01/1150	W	3	X									
	BN-18-EP-DS318S	5-1-01/1315	W	3	X									
	BN-18-EP-DS318M	5-1-01/1317	W	3	X									
	BN-18-EP-DS318D	5-1-01/1320	W	3	X									
	BN-18-EP-MW318	5-1-01/1420	W	9	X		MS/MSD							
	BN-18-EP-MWXD3	5-1-01/ —	W	3	X									
	BN-18-EP-DSXD7	5-1-01/ —	W	3	X									
	~~BN-18-EP~~	/	~~W~~		~~X~~									
	~~BN-18-EP~~	/	~~W~~		~~X~~									
	~~BN-18-EP~~	/	~~W~~		~~X~~									
	~~BN-18-EP~~	/	~~W~~		~~X~~									
	~~BN-18-EP~~	/	~~W~~		~~X~~									

COMMENTS: Begins SDG BN-18-EP-DS231AD

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Sue Chase	5-1-01 1530	[illegible]			[illegible] 5/1/01 1715
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

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Page ____ of ____

Client: EA

Contact: Sue Chase

Phone #: (207) 7985977

Fax #: ( )

Address

City

State

Zip Code

Purchase Order #

Proj. Name / No.

Katahdin Quote #

Bill (if different than above)

Address

Sampler (Print / Sign)

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WORK ORDER #: WR1502 - *

KATAHDIN PROJECT MANAGER

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AIRBILL NO:

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ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC	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☐N
✓	BN-18-EP-MW333	5-2 / 1145	W	3	X										
✓	BN-18-EP DS303S	5-3 / 905	W	3	X										
✓	BN-18-EP DS303M	5-3 / 910	W	3	X										
✓	BN-18-EP DS303D	5-3 / 915	W	3	X										
✓	BN-18-EP MW303	5-3 / 1015	W	3	X										
✓	BN-18-EP DS334S	5-3 / 1315	W	3	X										
✓	BN-18-EP DS334M	5-3 / 1320	W	3	X										
✓	BN-18-EP DS334D	5-3 / 1325	W	3	X										
✓	BN-18-EP MW334	5-3 / 1405	W	3	X										
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COMMENTS Ends SOG BN-18-EP-DS231AD

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-3-01 1500	[illegible]	[illegible]	5/3 [illegible]	[illegible]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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Client	Contact	Phone #	Fax #
EA	Sue Chase	(207) 798-5977	( )

Address	City	State	Zip Code

Purchase Order #	Proj. Name / No.	Katahdin Quote #

Bill (if different than above)	Address

Sampler (Print / Sign)	Copies To:

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WORK ORDER #: WR1500 - *

KATAHDIN PROJECT MANAGER _____

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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.	VOC	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☐N
✓	BN-18-EP-DS221A	5-2 / 1200	W	3	X										
✓	BN18-EP-DS404	5-2 / —	W	3	X										
✓	BN-18-EP-DS224	5-2 / 1400	W	9	X		MS	/	MSD						
✓	BN-18-EP-DS306	5-2 / 1425	W	3	X										
✓	BN-18-EP-DS051	5-2 / 1600	W	3	X										
✓	BN-18-EP DS0705	5-3-01 / 1300	W	3	X										
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COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-3-01 1500	James H Post	James H Post	5/3 500	Shelly Well
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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FORM # CHN-OF-CSTDY

ORIGINAL 0000006

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client	Contact	Phone #	Fax #
EA	Sue Chase	(207) 798-5977	( )

Address	City	State	Zip Code

Purchase Order #	Proj. Name / No.	Katahdin Quote #

Bill (if different than above)	Address

Sampler (Print / Sign)	Copies To:

LAB USE ONLY

WORK ORDER #: WR1440 -*

KATAHDIN PROJECT MANAGER _____

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.	VOC	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☐N
✓	BN-18-EP-DS230AS	4-30-01/835	W	3	X										
✓	BN-18EP-DS230AM	4-30-01/840	W	3	X										
✓	BN-18-EP-DS230AD	4-30-01/845	W	3	X										
✓	BN-18-EP-MW-230A	4-30-01/1005	W	3	X										
✓✓✓	BN-18-EP-DS105A	4-30-01/1015	W	9	X							MS/MSD			
✓	BN-18-EP-DS205	4-30-01/1030	W	3	X										
✓	BN-18-EP-DSXD2	4-30-01/—	W	3	X										
✓	BN-18-EP-DS225AS	4-30-01/1050	W	3	X										
✓	BN-18-EP DS225AM	4-30-01/1055	W	3	X										
✓	BN-18-EP DS225AD	4-30-01/1100	W	3	X										
✓	BN-18-EP-DS212	5-1-01/840	W	3	X										
✓	BN-18-EP-DSXD8	5-1-01/—	W	3	X										
✓	BN-18-EP-DS305S	4-30-01/1335	W	3	X										
✓	BN-18-EP-DS305M	4-30-01/1340	W	3	X										
✓	BN-18-EP-DS305D	4-30-01/1345	W	3	X										
✓	BN-18-EP-DS132S	4-30-01/1415	W	3	X										

COMMENTS Begins SDG BN-18-EP-DS230AS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-1-01 1530	[signature]			MMeteuer 5/1/01 1715
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (207) 782-3311
FORM # CHN-OF-CSTDY

ORIGINAL 0000005

Katahdin ANALYTICAL SERVICES
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Address	City	State	Zip Code

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LAB USE ONLY

WORK ORDER #: WR1440 - *

KATAHDIN PROJECT MANAGER _____

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.	VOC (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☐N
✓	BN-18-EP-DS132M	4-30-01/1420	W	3	X									
✓	BN-18-EP-DS132D	4-30-01/1425	W	3	X									
✓	BN-18-EP-MW305	4-30-01/1455	W	3	X									
	BN-18-EP-P132	4-30-01/1545	W	3	X									
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COMMENTS EnOS SOG BN-18-EP-DS230AS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-1-01 1530	[illegible]			M Metivier 5/1/01 1715
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

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Client	Contact	Phone #	Fax #
EA	Sue Chase	(207) 798-5977	( )

Address	City	State	Zip Code

Purchase Order #	Proj. Name / No.	Katahdin Quote #

Bill (if different than above)	Address

Sampler (Print / Sign)	Copies To:

LAB USE ONLY WORK ORDER #: WR1500

KATAHDIN PROJECT MANAGER _____

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.	VOC	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☐N
✓	BN-18-EP-DS221A	5-2 / 1200	W	3	X										
✓	BN18-EP-DSYD4	5-2 / —	W	3	X										
✓	BN-18-EP-DS224	5-2 / 1400	W	9	X		MS	/	MSD						
✓	BN-18-EP-DS306	5-2 / 1425	W	3	X										
✓	BN-18-EP-DSQS1	5-2 / 1600	W	3	X										
✓	BN-18-EP ~~DS~~QT005	5-3-01 / 1300	W	3	X										
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COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	5-3-01 1500	James H Post	James H Post	5/3 500	Shelly Well
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-20
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS105A	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-20
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS105A	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	103	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-5
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/6/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS205	AQ	4/30/01	5/1/01	5/6/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<4	ug/L	2.0	4	2.0
BROMOMETHANE	<4	ug/L	2.0	4	2.0
VINYL CHLORIDE	<4	ug/L	2.0	4	2.0
CHLOROETHANE	<4	ug/L	2.0	4	2.0
METHYLENE CHLORIDE	<2	ug/L	2.0	2	1.0
ACETONE	<10	ug/L	2.0	10	5
CARBON DISULFIDE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHENE	12	ug/L	2.0	2	1.0
1,1-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
TOTAL 1,2-DICHLOROETHENE	13	ug/L	2.0	2	1.0
CHLOROFORM	<2	ug/L	2.0	2	1.0
1,2-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
2-BUTANONE	<10	ug/L	2.0	10	5
1,1,1-TRICHLOROETHANE	150	ug/L	2.0	2	1.0
CARBON TETRACHLORIDE	B23	ug/L	2.0	2	1.0
BROMODICHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,2-DICHLOROPROPANE	<2	ug/L	2.0	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
TRICHLOROETHENE	94	ug/L	2.0	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/L	2.0	2	1.0
BENZENE	<2	ug/L	2.0	2	1.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
BROMOFORM	<2	ug/L	2.0	2	1.0
4-METHYL-2-PENTANONE	<6	ug/L	2.0	6	3
2-HEXANONE	<8	ug/L	2.0	8	4
TETRACHLOROETHENE	8	ug/L	2.0	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/L	2.0	2	1.0
TOLUENE	<2	ug/L	2.0	2	1.0
CHLOROBENZENE	<2	ug/L	2.0	2	1.0
ETHYLBENZENE	<2	ug/L	2.0	2	1.0
STYRENE	<2	ug/L	2.0	2	1.0
TOTAL XYLENES	<2	ug/L	2.0	2	1.0

Report Notes: B, O-2, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-5
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/6/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS205	AQ	4/30/01	5/1/01	5/6/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,3-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,4-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
DIBROMOFLUOROMETHANE	101	%	2.0		
TOLUENE-D8	90	%	2.0		
P-BROMOFLUOROBENZENE	77	%	2.0		
1,2-DICHLOROETHANE-D4	105	%	2.0		

Report Notes: B, O-2, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-6
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/6/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD2	AQ	4/30/01	5/1/01	5/6/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<4	ug/L	2.0	4	2.0
BROMOMETHANE	<4	ug/L	2.0	4	2.0
VINYL CHLORIDE	<4	ug/L	2.0	4	2.0
CHLOROETHANE	<4	ug/L	2.0	4	2.0
METHYLENE CHLORIDE	<2	ug/L	2.0	2	1.0
ACETONE	<10	ug/L	2.0	10	5
CARBON DISULFIDE	<2	ug/L	2.0	2	1.0
1,1-DICHLOROETHENE	12	ug/L	2.0	2	1.0
1,1-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
TOTAL 1,2-DICHLOROETHENE	13	ug/L	2.0	2	1.0
CHLOROFORM	<2	ug/L	2.0	2	1.0
1,2-DICHLOROETHANE	<2	ug/L	2.0	2	1.0
2-BUTANONE	<10	ug/L	2.0	10	5
1,1,1-TRICHLOROETHANE	160	ug/L	2.0	2	1.0
CARBON TETRACHLORIDE	<2	ug/L	2.0	2	1.0
BROMODICHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,2-DICHLOROPROPANE	<2	ug/L	2.0	2	1.0
CIS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
TRICHLOROETHENE	98	ug/L	2.0	2	1.0
DIBROMOCHLOROMETHANE	<2	ug/L	2.0	2	1.0
1,1,2-TRICHLOROETHANE	<2	ug/L	2.0	2	1.0
BENZENE	<2	ug/L	2.0	2	1.0
TRANS-1,3-DICHLOROPROPENE	<2	ug/L	2.0	2	1.0
BROMOFORM	<2	ug/L	2.0	2	1.0
4-METHYL-2-PENTANONE	<6	ug/L	2.0	6	3
2-HEXANONE	<8	ug/L	2.0	8	4
TETRACHLOROETHENE	8	ug/L	2.0	2	1.0
1,1,2,2-TETRACHLOROETHANE	<2	ug/L	2.0	2	1.0
TOLUENE	<2	ug/L	2.0	2	1.0
CHLOROBENZENE	<2	ug/L	2.0	2	1.0
ETHYLBENZENE	<2	ug/L	2.0	2	1.0
STYRENE	<2	ug/L	2.0	2	1.0
TOTAL XYLENES	<2	ug/L	2.0	2	1.0

Report Notes: O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client:	SHERRI PULLAR	**Lab Number:**	WR1440-6
	EA Engineering	**SDG:**	BN18EPDS230AS
	3 Washington Center	**Report Date:**	5/24/01
		PO No. :	29600.47
	Newburgh, NY 12550	**Project:**	LTM EVENT 18
Proj. ID:	NAS BRUNSWICK	**% Solids:**	N/A
		Method:	EPA 8260
		Date Analyzed:	5/6/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD2	AQ	4/30/01	5/1/01	5/6/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,3-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
1,4-DICHLOROBENZENE	<2	ug/L	2.0	2	1.0
DIBROMOFLUOROMETHANE	100	%	2.0		
TOLUENE-D8	86	%	2.0		
P-BROMOFLUOROBENZENE	74	%	2.0		
1,2-DICHLOROETHANE-D4	107	%	2.0		

Report Notes: O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-6
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS224	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-6
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS224	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	113	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-7
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS225AS	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B19	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	J0.5	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	8	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	3	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	6	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-7
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS225AS	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	106	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-8
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS225AM	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B19	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	7	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	2	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	5	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.9	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-8
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS225AM	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-9
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/6/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS225AD	AQ	4/30/01	5/1/01	5/6/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	22	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	5	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	2	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.5	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-9
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/6/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS225AD	AQ	4/30/01	5/1/01	5/6/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	124	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	113	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-1
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS229A	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	7	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	3	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	7	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	34	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	35	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-1
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS229A	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	102	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-2
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD4	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	6	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	7	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	30	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	33	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	5	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-2
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD4	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	104	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-1
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS230AS	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J0.9	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-1
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS230AS	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	128	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	134	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-2
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS230AM	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-2
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS230AM	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	111	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-3
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS230AD	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B6	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	J1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-3
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS230AD	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	104	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	113	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-16
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231AS	AQ	5/1/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-16
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231AS	AQ	5/1/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	103	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	84	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-17
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231AM	AQ	5/1/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-17
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231AM	AQ	5/1/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	83	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-1
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231AD	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-1
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231AD	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	99	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-2
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231BS	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-2
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231BS	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	99	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-3
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231BM	AQ	5/1/01	5/1/01	5/4/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-3
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231BM	AQ	5/1/01	5/1/01	5/4/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	101	%	1.0		
TOLUENE-D8	87	%	1.0		
P-BROMOFLUOROBENZENE	74	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-4
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231BD	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-4
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS231BD	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	90	%	1.0		
P-BROMOFLUOROBENZENE	77	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-2
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS303S	AQ	5/3/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-2
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS303S	AQ	5/3/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	91	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	82	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-3
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS303M	AQ	5/3/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	22	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-3
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS303M	AQ	5/3/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	107	%	1.0		
1,2-DICHLOROETHANE-D4	87	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-4
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS303D	AQ	5/3/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	18	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-4
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS303D	AQ	5/3/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	108	%	1.0		
1,2-DICHLOROETHANE-D4	89	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-12
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS305S	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B25	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	6	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-12
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS305S	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	109	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	122	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-13
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS305M	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B17	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	7	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-13
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS305M	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	111	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	107	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-14
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS305D	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B21	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	7	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-14
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS305D	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	112	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	106	%	1.0		
1,2-DICHLOROETHANE-D4	125	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-3
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS306	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	17	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	10	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	25	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	86	ug/L	1.0	1.0	1.0
CHLOROFORM	2	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	200	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	80	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.6	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-3
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS306	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	105	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-6
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS308S	AQ	4/30/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-6
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS308S	AQ	4/30/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	117	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	87	%	1.0		
1,2-DICHLOROETHANE-D4	127	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-7
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS308M	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B18	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	8	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-7
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS308M	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	88	%	1.0		
P-BROMOFLUOROBENZENE	76	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-8
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS308D	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	JB5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-8
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS308D	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	101	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-10
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS309BS	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B26	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-10
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS309BS	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	121	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-11
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS309BM	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B25	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-11
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS309BM	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	120	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-12
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS309BD	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B20	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-12
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS309BD	AQ	4/30/01	5/1/01	5/4/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	125	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-1
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS311	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	B9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	84	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	48	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	3	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	160	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-1
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS311	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-2
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD6	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	B9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	84	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	47	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	2	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	160	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-2
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD6	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-1
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS313S	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	7	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	J0.7	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-1
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS313S	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	89	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-2
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS313M	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	6	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-2
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS313M	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	111	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	115	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-3
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS313D	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	7	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-3
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS313D	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	115	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-6
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS318S	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-6
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS318S	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	99	%	1.0		
TOLUENE-D8	89	%	1.0		
P-BROMOFLUOROBENZENE	75	%	1.0		
1,2-DICHLOROETHANE-D4	103	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-7
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS318M	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-7
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS318M	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	89	%	1.0		
P-BROMOFLUOROBENZENE	74	%	1.0		
1,2-DICHLOROETHANE-D4	105	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-8
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS318D	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-8
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS318D	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	101	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	81	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-7
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS319	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	11	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	6	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	14	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	59	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-7
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS319	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-2
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS330S	AQ	4/30/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	19	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	8	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-2
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS330S	AQ	4/30/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-3
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS330M	AQ	4/30/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-3
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS330M	AQ	4/30/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	81	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-4
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS330D	AQ	4/30/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1439-4
SDG: BN18EPP111
Report Date: 5/23/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS330D	AQ	4/30/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	115	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-6
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS331	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	B10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	36	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	24	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	32	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
2-BUTANONE	6	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E260	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	97	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	J0.7	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-6
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS331	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	99	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-6DL
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS331	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	J4	ug/L	5.0	5	1.0
ACETONE	<25	ug/L	5.0	25	5
CARBON DISULFIDE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	40	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	30	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	38	ug/L	5.0	5	1.0
CHLOROFORM	<5	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	J3	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	300	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	120	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	<5	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	6	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	<5	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	<5	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	<5	ug/L	5.0	5	1.0

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550
Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-6DL
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS331	AQ	5/1/01	5/1/01	5/4/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
DIBROMOFLUOROMETHANE	96	%	5.0		
TOLUENE-D8	95	%	5.0		
P-BROMOFLUOROBENZENE	97	%	5.0		
1,2-DICHLOROETHANE-D4	97	%	5.0		

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-10
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD7	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	31	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	24	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	32	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	1	ug/L	1.0	1.0	1.0
2-BUTANONE	7	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	E280	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	79	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	J0.7	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	4	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-10
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD7	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	101	%	1.0		
TOLUENE-D8	88	%	1.0		
P-BROMOFLUOROBENZENE	74	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-10DL
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD7	AQ	5/1/01	5/1/01	5/4/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	JB3	ug/L	5.0	5	1.0
ACETONE	<25	ug/L	5.0	25	5
CARBON DISULFIDE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	31	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	24	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	30	ug/L	5.0	5	1.0
CHLOROFORM	<5	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	260	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	92	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	<5	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	J4	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	<5	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	<5	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	<5	ug/L	5.0	5	1.0

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1438-10DL
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/4/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD7	AQ	5/1/01	5/1/01	5/4/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1.0
DIBROMOFLUOROMETHANE	98	%	5.0		
TOLUENE-D8	95	%	5.0		
P-BROMOFLUOROBENZENE	83	%	5.0		
1,2-DICHLOROETHANE-D4	103	%	5.0		

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-3
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS332	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	13	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	4	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	130	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	47	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	3	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-3
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS332	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-4
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD1	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	13	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	4	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	130	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	47	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	3	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-4
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD1	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	101	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	100	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-5
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS333S	AQ	5/2/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	12	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-5
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS333S	AQ	5/2/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	84	%	1.0		

Report Notes: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-6
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS333M	AQ	5/2/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	12	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	3	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-6
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS333M	AQ	5/2/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	91	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	82	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-7
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS333D	AQ	5/2/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1501-7
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS333D	AQ	5/2/01	5/3/01	5/7/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	88	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	105	%	1.0		
1,2-DICHLOROETHANE-D4	79	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-6
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS334S	AQ	5/3/01	5/3/01	5/9/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	7	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	J0.6	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-6
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS334S	AQ	5/3/01	5/3/01	5/9/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	113	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-7
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS334M	AQ	5/3/01	5/3/01	5/9/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	6	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	J0.7	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-7
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS334M	AQ	5/3/01	5/3/01	5/9/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	113	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-8
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS334D	AQ	5/3/01	5/3/01	5/9/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	7	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	J0.7	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1502-8
SDG: BN18EPDS231AD
Report Date: 5/30/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/9/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS334D	AQ	5/3/01	5/3/01	5/9/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	112	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-10
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS1104S	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B8	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-10
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS1104S	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-11
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS1104M	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B9	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-11
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS1104M	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-12
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS1104D	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B10	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-12
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS1104D	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	105	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	111	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-10
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS212	AQ	5/1/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B21	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	2	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	6	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	8	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-10
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS212	AQ	5/1/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	109	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	120	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-11
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD8	AQ	5/1/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B20	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	6	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	8	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-11
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSXD8	AQ	5/1/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	120	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-15
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS132S	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	JB4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-15
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS132S	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	107	%	1.0		
1,2-DICHLOROETHANE-D4	128	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-16
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS132M	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	B5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-16
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS132M	AQ	4/30/01	5/1/01	5/7/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	113	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	128	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-17
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS132D	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	19	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	6	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1440-17
SDG: BN18EPDS230AS
Report Date: 5/24/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/5/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DS132D	AQ	4/30/01	5/1/01	5/5/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	102	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	108	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-8
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-QT004	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	J0.7	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-8
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-QT004	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	109	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-5
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-QT005	AQ	5/3/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-5
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-QT005	AQ	5/3/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	106	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	111	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-4
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSQS1	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	19	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	2	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1500-4
SDG: WR1500
Report Date: 5/31/01
PO No. : 26900.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/7/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSQS1	AQ	5/2/01	5/3/01	5/7/01	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	110	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-9
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSQD1	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	<1	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: NAS BRUNSWICK

Lab Number: WR1437-9
SDG: BN18EPDS311
Report Date: 5/31/01
PO No. : 29600.47
Project: LTM EVENT 18
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/3/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-18-EP-DSQD1	AQ	5/1/01	5/1/01	5/3/01	JEY	5030	JEY

Compound	Result	Units	DF	Sample PQL	Method PQL
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
DIBROMOFLUOROMETHANE	104	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes: