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NAS BRUNSWICK
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Monitoring Event 17 – September 2000
Site 9: Neptune Drive Disposal Site
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
Northern Division
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
3 Washington Center
Newburgh, New York 12550

November 2000
296.0047.7617

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Alexander Easterday — 27 November 2000

Alexander C. Easterday, P.G.
CTO Manager — Date

Robert S. Pace (mlp) — 28 November 2000

Robert S. Pace
Program Manager — Date

November 2000
296.0047.7617

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296 EA Project No.: 29600.47.7617
Contract Task Order No. 0047
Activity: Naval Air Station, Brunswick, Maine

Description of Report/Deliverable:

Monitoring Event 17 – September 2000, Site 9: Neptune Drive Disposal Site, 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

29 November 00

James A. Shultz, C.P.G. (Date)
Senior Geologist

QUALITY REVIEW STATEMENT

Contract No. N62472-92-D-1296
Contract Task Order No. 47
Activity: Naval Air Station, Brunswick, Maine

EA Project Number: 29600.47.7617

Description of Report/Deliverable:

Monitoring Event 17 – September 2000, Site 9: Neptune Drive Disposal Site, 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 1.2.1 and Figure 3 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

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

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

11-28-00
(Date)

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5	Summary of water quality indicator parameters measured in surface water and leachate seep samples collected on 20 September 2000 at Site 9.

1. PROJECT ACTIVITIES AND MONITORING EVENT RESULTS

1.1 INTRODUCTION

Under Contract No. N62472-92-D-1296, Contract Task Order No. 0047, Northern Division, Naval Facilities Engineering Command contracted with EA Engineering, Science, and Technology to perform long-term monitoring at the Neptune Drive Disposal Site (Site 9), Naval Air Station (NAS), Brunswick, Maine. NAS Brunswick is located south of the Androscoggin River between Brunswick and Cooks Corner, Maine (Figure 1). The layout of Site 9 is provided on Figure 2.

At Site 9, the Navy is providing monitoring and maintenance as part of the long-term remedial actions required by the Final Record of Decision for Site 9 (EA 1999a). Monitoring Event 17 was sampled in accordance with the Final Long-Term Monitoring Plan (EA 1999b).

This report provides results for the September 2000 monitoring event (Monitoring Event 17). Appendix A contains the laboratory analytical data summary tables. Appendix B provides field monitoring and sampling forms. Appendix C provides an analytical data quality review. Appendix D provides analytical report Form I data tables. Temporal trends and other observations based on data collected during bi-annual monitoring will be presented in the Annual Report for 2000.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Gauging Activities

Water level measurements for Monitoring Event 17 were collected on 5 September 2000 at the 16 monitoring wells and 2 stream gauge stations as indicated in Table 1. The locations of site monitoring wells and gauging stations are provided on Figure 2. To collect data related to upgradient ground-water flow patterns, depth to ground water was measured (gauged) in 9 monitoring wells at the Navy Exchange Service Station on 5 September 2000. The gauging procedures are detailed in the final report for Monitoring Event 4 (EA 1996).

1.2.2 Results

Water level gauging data recorded on 5 September 2000 are provided in Table 2. Water level gauging data recorded at the Navy Exchange Service Station on 5 September 2000 are provided in Table 3. The Field Record of Well Gauging forms completed during the well gauging events are provided in Appendix B.

Figure 3 provides the ground-water potentiometric surface elevations and flow directions for Site 9 based on the September gauging data.

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Sampling Activities

The ground-water sampling program was completed on 14 and 15 September 2000 in accordance with the general methodologies established in the final Long-Term Monitoring Plan (EA 1999b). Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for sample collection at Site 9. Ground-water samples were collected from each of the 11 wells at Site 9 sampled during the September 2000 sampling event using the low-flow sampling technique. Table 1 provides a summary of the wells sampled during Monitoring Event 17.

Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were measured during well purging. Although not required, oxidation-reduction potential (Eh) was recorded for informational purposes. Stabilization of water quality indicator parameters was achieved when measurements agreed to within approximately 10 percent on 3 successive readings, and turbidity was below 10 nephelometric turbidity units. Wells were purged at the lowest flow rate obtainable with the submersible pump (i.e., from approximately 0.1 L/minute to 0.5 L/minute). Well MW-NASB-071 was purged at 1 L/minute; however, the drawdown during purging was 0.19 ft, indicating that the well was not stressed during sampling. All Site 9 monitoring wells reached equilibrium with respect to water quality indicators prior to sampling. Reduced dissolved oxygen concentrations (<2.0 mg/L) were noted in samples from 5 monitoring wells, with a low of 0.79 mg/L (MW-NASB-079). Water quality parameters are summarized on Table 4 for the ground-water samples. Field Record of Well Gauging, Purging, and Sampling forms are provided in Appendix B.

Nine ground-water samples from Site 9 collected from monitoring wells were analyzed for Target Compound List volatile organic compounds by U.S. Environmental Protection Agency (EPA) Method 8260B (Table 1). Well MW-NASB-077 was not sampled since it was removed from the sampling program in August 2000 (EA 2000). Ground-water samples collected from monitoring wells MW-NASB-069, MW-NASB-070, and MW-NASB-079 were also analyzed for semivolatile organic compounds by EPA Method 8270C and 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 absorption (EPA Method 7470).

1.3.2 Analytical Data

Appendix Tables A-1 and A-3 summarize the analytical data for the ground-water samples. Appendix D contains the laboratory Form I summary tables for the analyses performed.

1.4 SURFACE WATER AND LEACHATE STATION SEEP SAMPLING AND ANALYSIS

1.4.1 Sampling Activities

The surface water and leachate station seep sampling program was completed on 20 September 2000 in accordance with the Final Long-Term Monitoring Plan (EA 1999b). Water quality indicator parameters for the surface water sample and leachate seep samples are summarized on Table 5.

Notable observations of water quality indicator parameter measurements for surface water and the leachate seep sample are described below for informational purposes, although sample data quality is not expected to be adversely impacted:

- Dissolved oxygen and Eh concentrations were noticeably lower for the surface water and leachate seep sample collected for Monitoring Event 17 (September 2000) as opposed to those collected during Monitoring Event 16 (April 2000).

- Turbidity measurements were noticeably higher for the leachate seep sample collected for Monitoring Event 17 (September 2000) as opposed to those collected during Monitoring Event 16 (April 2000).

Both the surface water sample (SW-010) and the leachate station seep sample (LT-901) were collected and analyzed for Target Compound List volatile organic compounds by EPA Method 8260B. Table 1 provides a summary of the surface water and leachate station seep sampling program completed during Monitoring Event 17.

1.4.2 Analytical Data

Surface water sample results are summarized in Table A-4. Leachate seep sample results are summarized in Table A-5. Appendix D contains the Form I summary table for the analysis performed. The sample locations are shown on Figure 2.

1.5 STREAM SEDIMENT SAMPLING AND ANALYSIS

1.5.1 Sampling Activities

The stream sediment sampling program was completed on 20 September 2000 in accordance with the Final Long-Term Monitoring Plan (EA 1999b). The stream sediment sample (SED-010) was collected and analyzed for Target Analyte List elements. Table 1 provides a summary of the stream sediment sampling program completed during Monitoring Event 17.

1.5.2 Analytical Data

Table A-6 summarizes analytical results for the stream sediment sample. Appendix D contains the Form I summary table for the analysis performed. The sample location is shown on Figure 2.

1.6 VISUAL INSPECTION

Site inspection activities at Site 9 were completed by an engineer on 15 September 2000 in accordance with the Final Long-Term Monitoring Plan (1999b). There was no evidence of stressed vegetation nor physical evidence of tampering with the site wells. Stream gauge SG-1A was replaced prior to Monitoring Event 17 in September 2000 (SG-1B). The site monitoring wells were observed to be capped, labeled, locked, and in good condition.

1.7 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required to meet the data quality objectives of the sampling program (ABB-ES 1994). The data obtained during Monitoring Event 17 were determined to be of sufficient quality to be used to evaluate the long-term effectiveness of the remedial action (i.e., monitored natural attenuation).

1.8 ANALYTICAL DATA QUALITY REVIEW

A review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, completeness, comparability, and data quality objective requirements. A complete summary of the analytical data quality review is provided in Appendix C. Method detection limits for solid and aqueous media are included in Appendix C. The data represented in this report were found to meet the specified acceptance criteria, except the following:

- The results for acetone in sample LT-901 DUP should be considered estimated due to the exceedance of laboratory control standards criteria.
- The non-detect result for antimony and the positive detections of calcium, magnesium, and manganese in samples SED-010 and SED-010 DUP should be considered estimated bias low due to the exceedance of the matrix spike/matrix spike duplicate recovery criteria.
- The positive methylene chloride detections for samples QS-003 and QD-001 should be considered false-positives due to method blank contamination.
- The positive acetone detection in sample LT-901 DUP should be considered false-positive due to source water blank contamination.

- The positive detection of potassium in samples MW-NASB-069, MW-NASB-070, MW-NASB-079, and MW-NASB-069 DUP should be considered false-positive due to source water blank contamination.

- Total 1,2-dichloroethene and trichloroethene concentrations in sample SED-010 should be considered as estimated values due to the exceedances of field precision criteria.

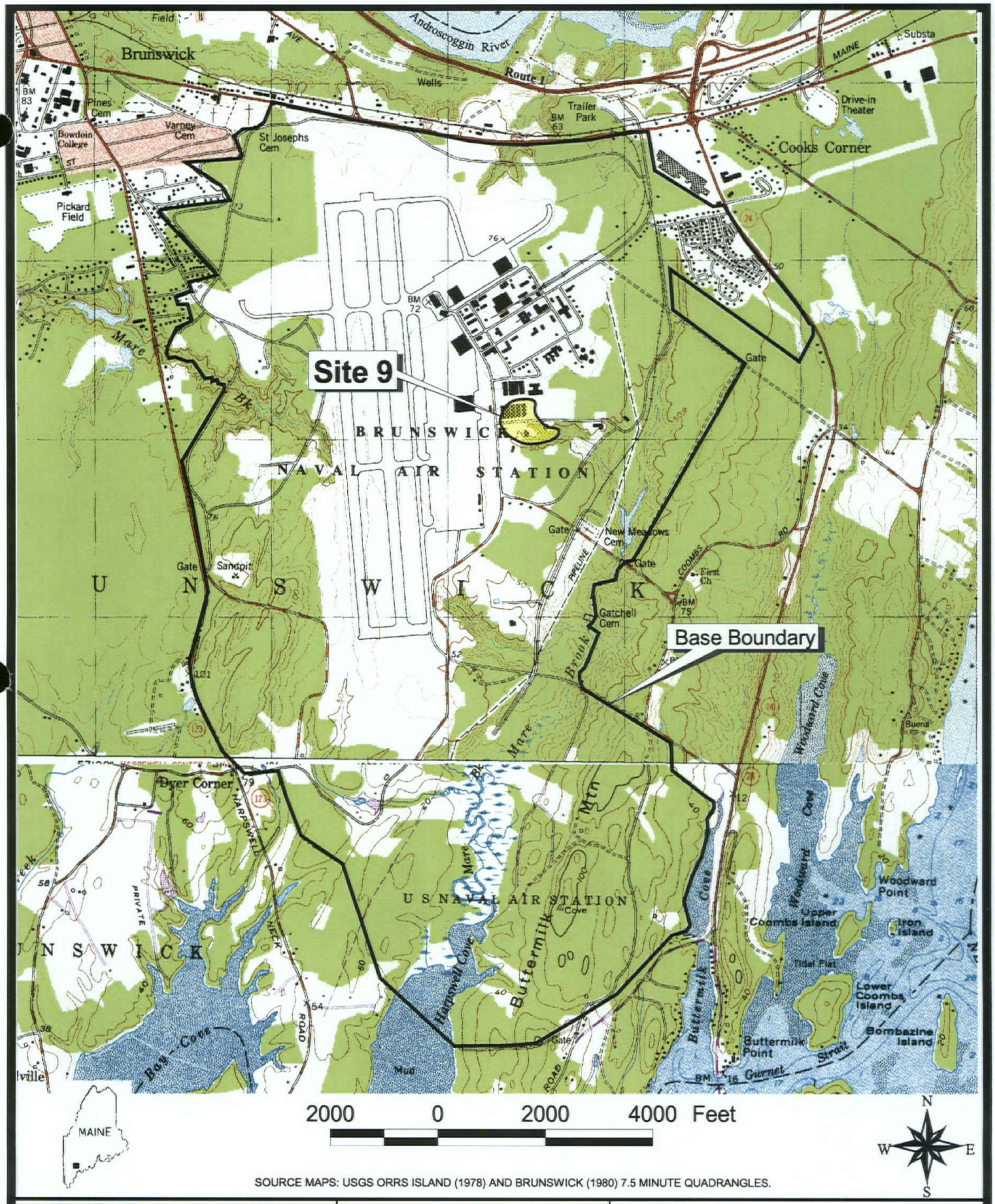
- Sample MW-NASB-070 had a positive concentration of iron within the expected range of variability of the source water contamination and should, therefore, be considered as false-positive due to source water contamination.

- Sample MW-NASB-079 had a positive concentration of sodium within the expected range of variability of the source water contamination and should, therefore, be considered as false-positive due to source water contamination.

- Samples SED-010 and SED-010 DUP had positive concentrations of beryllium, potassium, and sodium within the expected range of variability of the source water and rinsate blank contamination and should, therefore, be considered as false-positives due to source water contamination.

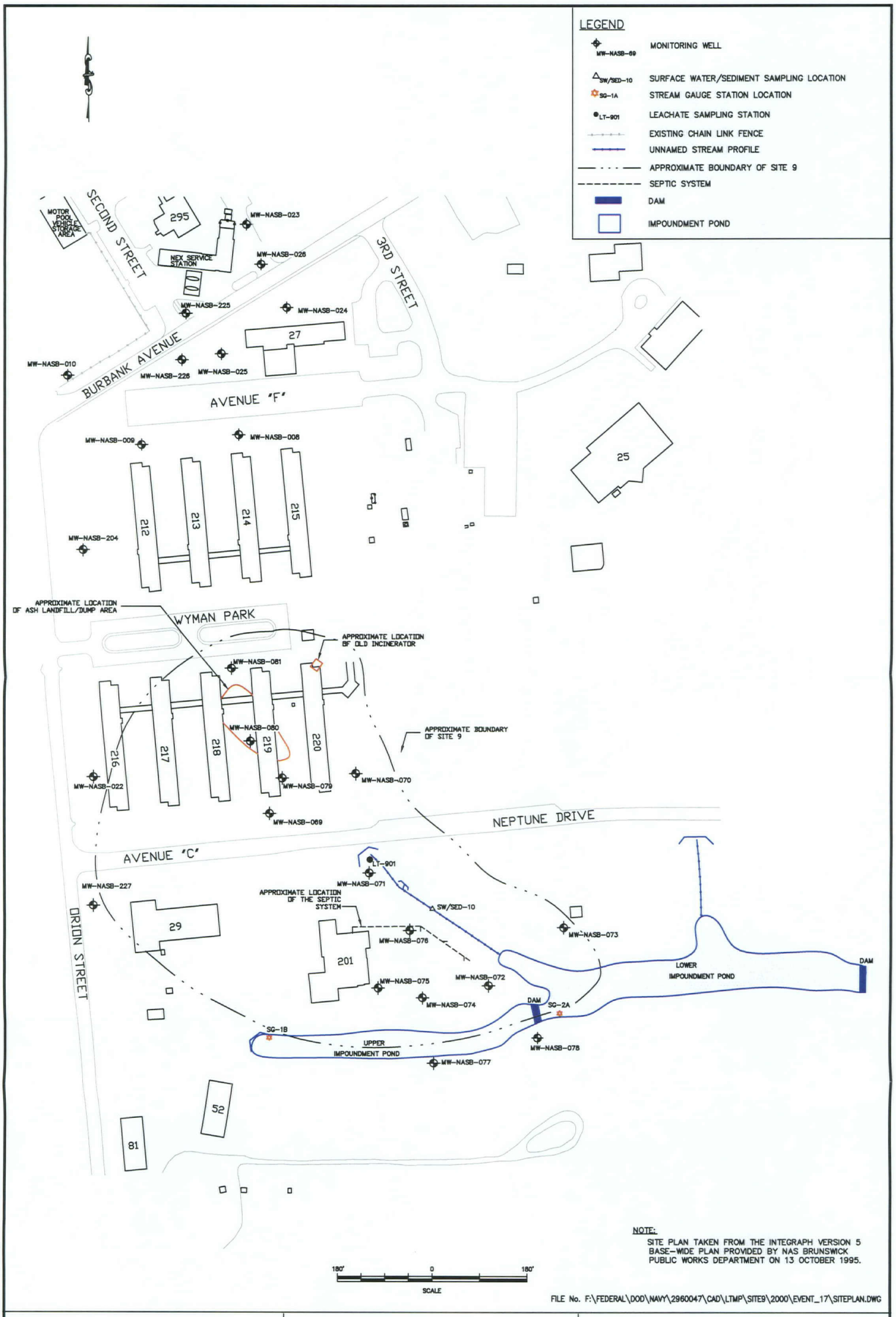
- The results for iron in sample MW-NASB-069 should be considered an estimated value due to the exceedances of field precision criteria.

However, analytical data are considered to be of sufficient quality to evaluate the long-term effectiveness of the remedial action (i.e., monitored natural attenuation).



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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	NAVAL AIR STATION BRUNSWICK, MAINE	FIGURE I SITE LOCATION MAP, SITE 9 (NEPTUNE DRIVE DISPOSAL SITE)					
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



NOTE:
SITE PLAN TAKEN FROM THE INTEGRAPH VERSION 5 BASE-WIDE PLAN PROVIDED BY NAS BRUNSWICK PUBLIC WORKS DEPARTMENT ON 13 OCTOBER 1995.

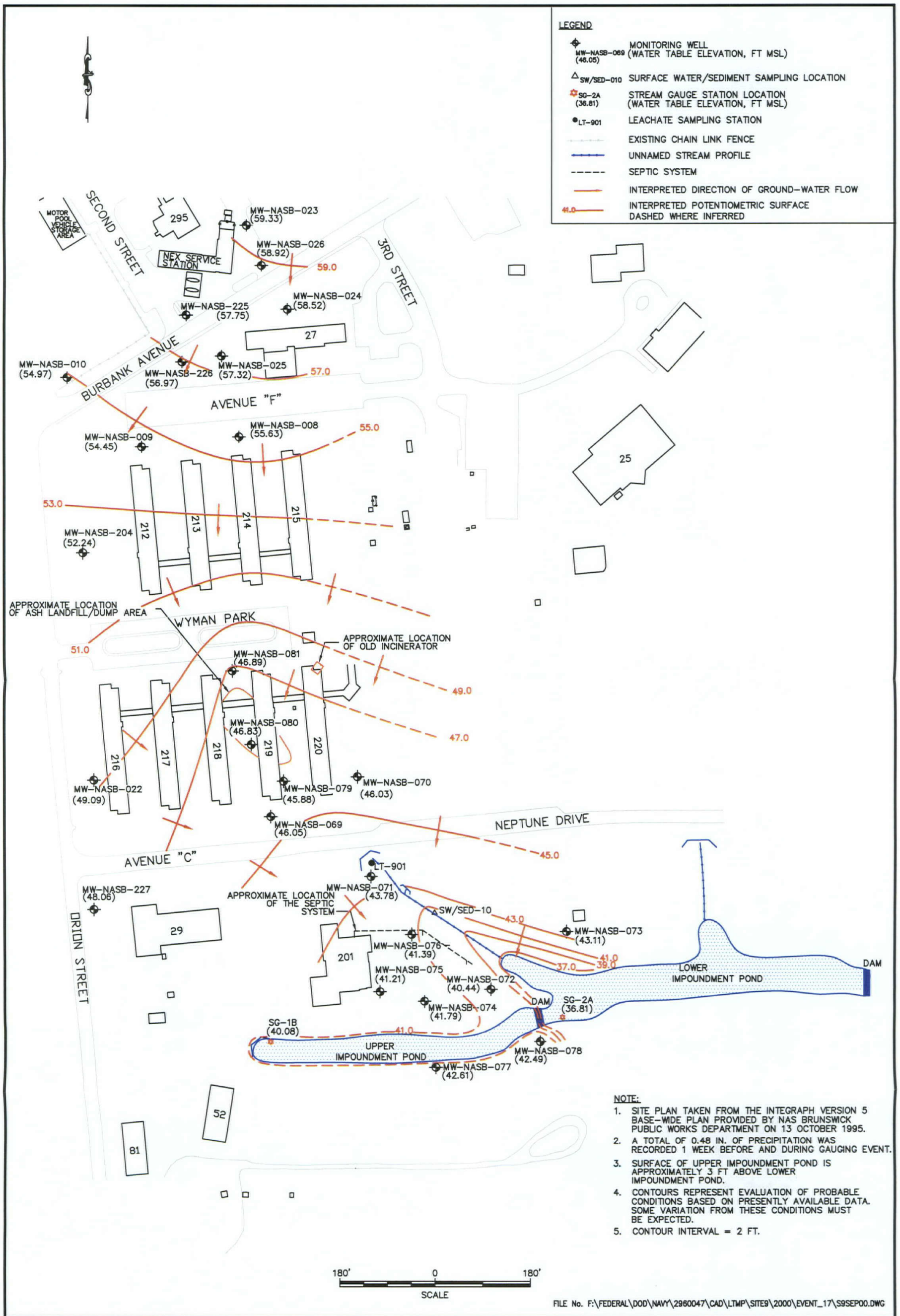
FILE No. F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\SITE9\2000\EVENT_17\SITEPLAN.DWG

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

SITE 9
(NEPTUNE DRIVE DISPOSAL SITE)
NAVAL AIR STATION
BRUNSWICK, MAINE

FIGURE 2
SITE PLAN

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
AE	SAP	SAP	SYC	1"=180'	19 OCT 2000	29600.47	SITEPLAN



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. A TOTAL OF 0.48 IN. OF PRECIPITATION WAS RECORDED 1 WEEK BEFORE AND DURING GAUGING EVENT.
3. SURFACE OF UPPER IMPOUNDMENT POND IS APPROXIMATELY 3 FT ABOVE LOWER IMPOUNDMENT POND.
4. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.
5. CONTOUR INTERVAL = 2 FT.

FILE No. F:\FEDERAL\DOD\NAVY\2960047\CAD\LTMP\SITE9\2000\EVENT_17\S9SEP00.DWG

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

SITE 9
(NEPTUNE DRIVE DISPOSAL SITE)
NAVAL AIR STATION
BRUNSWICK, MAINE

FIGURE 3
INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS, 5 SEPTEMBER 2000 WELL GAUGING DATA

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FILE No.
AE	SAP	SAP	SYC	AS SHOWN	14 NOV 2000	29600.47	S9SEP00

TABLE 1 SUMMARY OF LONG-TERM MONITORING PROGRAM AT SITE 9

Well Designation	Previous Well Designation	Monitoring Frequency	Sample Parameters			Monitoring Event 17	
			TCL VOC	TAL Elements	Field Parameters[a]	Gauged	Sampled
Monitoring Wells							
MW-NASB-069	MW-901	Bi-Annual	X	X[b]	X	X	X
MW-NASB-070	MW-902	Bi-Annual	NR	X[b]	X	X	X
MW-NASB-071	MW-903	Bi-Annual	X	NR	X	X	X
MW-NASB-072	MW-904	Bi-Annual	X	NR	X	X	X
MW-NASB-073	MW-905	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-074	MW-906	Bi-Annual	X	NR	X	X	X
MW-NASB-075	MW-907	Bi-Annual	X	NR	X	X	X
MW-NASB-076	MW-908	Bi-Annual	X	NR	X	X	X
MW-NASB-077	MW-909	Bi-Annual	NR[d]	NR	X	X	NR
MW-NASB-078	MW-910	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-079	MW-914	Bi-Annual	NR	X[b]	X	X	X
MW-NASB-080	MW-915	Bi-Annual	X	NR	X	X	X
MW-NASB-081	MW-916	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-022	None	Bi-Annual	X	NR	X	X	X
MW-NASB-204	None	Bi-Annual	NR	NR	NR	X[c]	NR
MW-NASB-227	None	Bi-Annual	X	NR	X	X	X

Sample Type/Location	Monitoring Frequency	Sample Parameters		Monitoring Event 17	
		TCL VOC	Field Parameters[a]	Gauged	Sampled
Leachate Station					
LT-901 (SEEP)	Bi-Annual	X	X	NR	X
Surface Water					
SW-010	Bi-Annual	X	X	NR	X
Sediment					
SED-010	Bi-Annual	NR[e]	NR	NR	X
Stream Gauge Water					
SG-1B[f]	Bi-Annual	NR	NR	X[c]	NR
SG-2A	Bi-Annual	NR	NR	X[c]	NR

(a) Determination of field parameters in accordance with EPA/600/4-79/020 using the following methods: pH (Method 150.1), temperature (Method 170.1), specific conductance (Method 120.1), and turbidity (180.1); optional field parameters, including dissolved oxygen (Method 360.1) and Eh, were also recorded. Includes water level measurement.
(b) Well will be sampled and analyzed for semivolatile organic compounds by EPA Method 8270C.
(c) Indicates water level measurement only.
(d) Monitoring well MW-NASB-077 was analyzed for two rounds (September 1999 and April 2000) using EPA Method 8260B modified for selected ion mass for vinyl chloride. Results for both rounds were non-detect, therefore, monitoring well MW-NASB-077 was removed from the sampling program in August 2000.
(e) Sediment location SED-010 was analyzed for TAL elements.
(f) Stream gauge SG-1A was replaced with SG-1B prior to Monitoring Event 17. However, SG-1B was not surveyed at the time of this report.

NOTE: TCL = Target Compound List; VOC = Volatile organic compounds; TAL = Target Analyte List; NR = Procedure not required; EPA = U.S. Environmental Protection Agency.

TABLE 2 MONITORING WELL GAUGING SUMMARY, SITE 9
5 SEPTEMBER 2000

Well Designation	Previous Well Designation	Top of Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC Riser)	Depth to Water (ft below top of PVC riser)	Water Table Elevations (ft MSL)
MW-NASB-069	MW-901	57.35	42.42	11.30	46.05
MW-NASB-070	MW-902	58.26	27.32	12.23	46.03
MW-NASB-071	MW-903	46.25	21.54	2.47	43.78
MW-NASB-072	MW-904	49.81	14.63	9.37	40.44
MW-NASB-073	MW-905	51.71	32.12	8.60	43.11
MW-NASB-074	MW-906	51.68	27.12	9.89	41.79
MW-NASB-075	MW-907	54.91	21.22	13.70	41.21
MW-NASB-076	MW-908	52.79	19.94	11.40	41.39
MW-NASB-077	MW-909	58.89	37.29	16.28	42.61
MW-NASB-078	MW-910	53.74	14.93	11.25	42.49
MW-NASB-079	MW-914	58.15	18.92	12.27	45.88
MW-NASB-080	MW-915	58.51	19.04	11.68	46.83
MW-NASB-081	MW-916	58.22	18.85	11.33	46.89
MW-NASB-022	None	59.52	17.97	10.43	49.09
MW-NASB-204	None	62.09	17.93	9.85	52.24
MW-NASB-227	None	58.39	40.60	10.33	48.06
Stream Gauging Station					
SG-1B	None	37.35	NA	2.73	40.08
SG-2A	None	34.41[a]	NA	2.40	36.81

(a) Measurement from surveyed point on staff gauge. Zero mark on the staff gauge is the measured elevation.

NOTE: MSL = Mean sea level; PVC = polyvinyl chloride; NA = not applicable.

TABLE 3 MONITORING WELL GAUGING SUMMARY
NAVY EXCHANGE SERVICE STATION
5 SEPTEMBER 2000

Well Designation	Top of Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC Riser)	Depth to Water (ft below top of PVC riser)	Water Table Elevations (ft MSL)
MW-NASB-8	59.22	13.15	3.59	55.63
MW-NASB-9	59.00	11.50	4.55	54.45
MW-NASB-10	62.03	12.40	7.06	54.97
MW-NASB-23	67.29	21.90	7.96	59.33
MW-NASB-24	65.31	13.15	6.79	58.52
MW-NASB-25	64.34	14.70	7.02	57.32
MW-NASB-26	66.61	12.55	7.69	58.92
MW-NASB-225	64.61	14.31	6.86	57.75
MW-NASB-226	62.22	12.68	5.25	56.97

NOTE: MSL = Mean sea level.
Monitoring wells listed on this table are not part of Site 9.
Water elevations were collected at the Navy Exchange Service Station wells to provide data upgradient of Site 9.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 14-15 SEPTEMBER 2000 AT SITE 9

Well Designation	Previous Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
MW-NASB-069	MW-901	5.70	16.90	486	1.11	0.8	92.2
MW-NASB-070	MW-902	5.52	15.72	92	1.83	1	195
MW-NASB-071	MW-903	6.44	14.26	237	1.95	5	47
MW-NASB-072	MW-904	6.47	17.05	251	2.38	6	163
MW-NASB-074	MW-906	6.52	13.22	272	2.58	4	89
MW-NASB-075	MW-907	6.22	18.16	316	3.52	1	133
MW-NASB-076	MW-908	6.40	16.91	290	2.86	1	124
MW-NASB-079	MW-914	6.70	19.41	285	0.79	3	-140
MW-NASB-080	MW-915	6.38	18.21	404	1.06	1	-92
MW-NASB-022	None	5.72	19.05	426	4.24	1	220
MW-NASB-227	None	6.09	15.43	222	2.14	5	162

NOTE: NTU = Nephelometric turbidity unit.

TABLE 5 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN SURFACE WATER AND LEACHATE SEEP SAMPLES COLLECTED ON 20 SEPTEMBER 2000 AT SITE 9

Sample Designation	pH	Temperature (°C)	Conductivity (μmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
Surface Water						
SW-010	6.57	16.19	255	8.25	5	118
Leachate Seep						
LT-901	6.44	17.00	270	4.17	80	70

NOTE: NTU = Nephelometric turbidity unit.

REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1994. Interim Ground-Water Record of Decision for the Ground-Water Operable Unit at Site 9. September.

EA Engineering, Science, and Technology. 1996. Final Report, Quarterly Monitoring Event 4 - November 1995, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. February.

EA. 1999a. Final Record of Decision for Site 9, Naval Air Station, Brunswick, Maine. September.

EA. 1999b. Final Long-Term Monitoring Plan, Site 9: Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. August.

EA. 2000. Site 9 (Neptune Drive Disposal Site), Monitoring Well MW-NASB-077, Naval Air Station, Brunswick, Maine. Letter to U.S. Environmental Protection Agency and Maine Department of Environmental Protection. 31 August.

Appendix A

Laboratory Analytical Data Summary Tables

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2870-3
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-QT05	AQ	8/31/00	9/21/00	9/27/00	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:

Lab Number: WQ2870-3
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-QT05	AQ	8/31/00	9/21/00	9/27/00	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	99	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2883-4
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QT07	AQ	9/22/00	9/22/00	9/27/00	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	B2	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

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2883-4
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QT07	AQ	9/22/00	9/22/00	9/27/00	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	99	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	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: BNAS

Lab Number: WQ2838-5
SDG: BN2S2LT201W
Report Date: 9/26/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/23/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-2-S2-QS001W	AQ	9/19/00	9/19/00	9/23/00	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: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: BNAS

Lab Number: WQ2838-5
SDG: BN2S2LT201W
Report Date: 9/26/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/23/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-2-S2-QS001W	AQ	9/19/00	9/19/00	9/23/00	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	117	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	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:

Lab Number: WQ2883-1
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QD001	AQ	9/22/00	9/22/00	9/26/00	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	JB0.5	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: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2883-1
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QD001	AQ	9/22/00	9/22/00	9/26/00	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	105	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	102	%	1.0		

Report Notes: B, J

TABLE A-1 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITE 9 BETWEEN 14 AND 15 SEPTEMBER 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			MW-NASB-022	MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-071	MW-NASB-072	MW-NASB-074
			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**						
Total VOC	---	---	---	111	112	3	3	7.2
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	51	52	(<1U)	2	3
Chloroform	---	100	(<1U)	(<1U)	(<1U)	3	(<1U)	0.5J
Ethylbenzene	700	700	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	0.7J
Toluene	1,400	1,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	1	3
Vinyl chloride	0.15	2	(<2U)	**60**	**60**	(<2U)	(<2U)	(<2U)
Xylenes, total	600	10,000	(<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).
U = Not detected. Sample quantitation limits are shown as (<____U).
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-1, CONTINUED

			MW-NASB-075	MW-NASB-076	MW-NASB-076 (Dup)	MW-NASB-080	MW-NASB-227
			Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**					
Total VOC	---	---	---	11	11	11	6
1,1-Dichloroethane	70	---	(<1U)	(<1U)	(<1U)	1	(<1U)
1,2-Dichloroethene, total	70	70	(<1U)	3	3	1	3
Chloroform	---	100	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Ethylbenzene	700	700	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Tetrachloroethene	3	5	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Toluene	1,400	1,000	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)
Trichloroethene	5	5	(<1U)	(<1U)	(<1U)	(<1U)	3
Vinyl chloride	0.15	2	(<2U)	**8**	**8**	**9**	(<2U)
Xylenes, total	600	10,000	(<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).
U = Not detected. Sample quantitation limits are shown as (<____U).
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-2 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITE 9 BETWEEN 14 AND 15 SEPTEMBER 2000
SEMIVOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8270C

			MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-070	MW-NASB-079
			Ground Water	Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**				
NONE DETECTED						

TABLE A-3 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM SITE 9 BETWEEN 14 AND 15 SEPTEMBER 2000
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			MW-NASB-069	MW-NASB-069 (Dup)	MW-NASB-070	MW-NASB-079
			Ground Water	Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**				
Aluminum	1,430	200	17.4B*	34.5B*	19.2B*	21.6B*
Arsenic	---	50	(<2.46U)	(<2.46U)	(<2.46U)	3.2B*
Barium	1,500	2,000	8.2	8.5	8.5	297
Cadmium	5	5	(<2.61U)	(<2.61U)	(<2.61U)	(<0.28U)
Calcium	---	---	7,270	7,250	6,760	32,600
Chromium	100	100	(<4.02U)	(<4.02U)	(<4.02U)	(<4.02U)
Copper	---	1,300	(<1.93U)	(<1.93U)	4.9B*	(<1.93U)
Iron	---	300	239	**447**	12.5B*	**23,300**
Magnesium	---	---	2,790	2,780	701	2,080
Manganese	200	50	**589**	**594**	**161**	**125**
Mercury	2	2	(<0.02U)	(<0.02U)	(<0.02U)	0.19B*
Potassium	---	---	1,340	1,180	480B*	3,320
Sodium	---	---	64,200	64,800	8,230	5,020
Zinc	---	5,000	(<1.55U)	3.4B*	(<1.55U)	(<1.55U)

(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-4 SUMMARY OF SURFACE WATER SAMPLES COLLECTED FROM SITE 9 ON 20 SEPTEMBER 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			SW-010
			Surface Water
			Grab Sample
Compound/Element	**MEG**	**MCL**	
Total VOC	---	---	1.9
1,2-Dichloroethene, total	---	---	0.9J
Vinyl chloride	---	---	1J

(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).
SW = Surface water sample locations.
J = Estimated concentration.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those compounds detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE A-5 SUMMARY OF LEACHATE SAMPLES COLLECTED FROM SITE 9 ON 20 SEPTEMBER 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			LT-901	LT-901 (Dup)
			Leachate	Leachate
			Grab Sample	Grab Sample
Compound/Element	**MEG**	**MCL**		
Total VOC	---	---	---	---
Acetone	---	---	(<5U)	3J
Vinyl chloride	---	---	(<2U)	(<2U)

(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).
LT = Leachate sample.
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 vinyl chloride are shown on this table.

TABLE A-6 SUMMARY OF SEDIMENT SAMPLES COLLECTED FROM SITE 9 ON 20 SEPTEMBER 2000
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			SED-10	SED-10 (Dup)
			Sediment	Sediment
			Grab Sample	Grab Sample
Compound/Element	**MEG**	**MCL**		
Aluminum	---	---	4,550	3,660
Arsenic	---	---	2.2	0.99B*
Barium	---	---	18.2	11.4
Beryllium	---	---	0.4B*	0.2B*
Calcium	---	---	878	643
Chromium	---	---	9	6.2
Cobalt	---	---	3.4B*	2.7B*
Copper	---	---	7.9	5.5
Iron	---	---	5,340	4,310
Lead	---	---	18.5	12.3
Magnesium	---	---	1,420N	1,030N
Manganese	---	---	76.8N	64.4N
Mercury	---	---	0.01B*	(<0.01U)
Nickel	---	---	7.1	5.2
Potassium	---	---	733	523
Sodium	---	---	85.8	71.9
Vanadium	---	---	12.7	11
Zinc	---	---	24.1E	17.8E

(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/Kg).
SED = Stream sediment sample location.
B* = Analyte concentration is between the Instrument Detection Limit and the Contract Required Detection Limit.
E = Reported value is estimated because of interference.
J = Estimated concentration below detection limit.
U = Not detected. Sample quantitation limits are shown as (<____U).
Only those compounds detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE A-7 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM SITE 9 BETWEEN 15 AND 22 SEPTEMBER 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			QD-001	QS-001	QS-003	QT-03	QT-05
			Source Water Blank	Rinsate Blank	Rinsate Blank	Trip Blank	Trip Blank
			QC Sample	QC Sample	QC Sample	QC Sample	QC Sample
Compound/Element	**MEG**	**MCL**					
Total VOC	---	---	---	---	---	---	---
Acetone	---	---	3J	(<5U)	4J	(<5U)	(<5U)
Methylene chloride	---	---	0.5JB	(<1U)	0.6JB	(<1U)	(<1U)
Vinyl chloride	---	---	(<2U)	(<2U)	(<2U)	(<2U)	(<2U)

(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).
QT = Trip blank.
QS = Equipment rinsate blank.
QD =Source water blank.
U = Not detected. Sample quantitation limits are shown as (<___U).
B = Compound detected in associated method blank.
Only those analytes detected in at least one of the samples and vinyl chloride are shown on this table.

TABLE A-8 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM SITE 9 BETWEEN 15 AND 22 SEPTEMBER 2000
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			QD-001	QS-001	QS-003
			Source Water Blank	Rinsate Blank	Rinsate Blank
			QC Sample	QC Sample	QC Sample
Compound/Element	**MEG**	**MCL**			
Barium	---	---	0.29B*	(<0.48U)	(<0.23U)
Beryllium	---	---	0.32B*	(<0.56U)	0.22B*
Calcium	---	---	(<9.71U)	37.3B*	12.4B*
Iron	---	---	13.1B*	24.4B*	(<11.79U)
Manganese	---	---	0.21B*	1.6B*	(<0.16U)
Potassium	---	---	1,440	(<338.02U)	969B*
Sodium	---	---	1,380	92.4B*	44.3B*

(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).
QT = Trip blank.
QS = Equipment rinsate blank.
QD =Source water blank.
U = Not detected. Sample quantitation limits are shown as (<___U).
B = Compound detected in associated method blank.
Only those analytes detected in at least one of the samples and vinyl chloride 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

Appendix B.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 17 Site 9	Project No: 29600.47	Date: 9/5/00
Weather/Temperature:		
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 MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
MW-NASB-69	Y Y	Y	0	0	Good		57.35	11.30	42.42	46.05
MW-NASB-70	Y Y	Y	0	0	Good		58.26	12.23	27.32	46.03
MW-NASB-71	Y Y	Y	0	0	Good		46.25	2.47	21.54	43.78
MW-NASB-72	Y Y	Y	0	0	Good		49.81	9.37	14.63	40.44
MW-NASB-73	Y Y	Y	0	0	Good		51.71	8.60	32.12	43.11
MW-NASB-74	Y Y	Y	0	0	Good		51.68	9.89	27.12	41.79
MW-NASB-75	Y Y	Y	0	0	Good		54.91	13.70	21.22	41.21
MW-NASB-76	Y Y	Y	0	0	Good		52.79	11.40	19.94	41.39
MW-NASB-77	Y Y	Y	0	0	Good		58.89	16.28	37.29	42.61
MW-NASB-78	Y Y	Y	0	0	Good		53.74	11.25	14.93	42.49
MW-NASB-79	Y Y	Y	0	0	Good		58.15	12.27	18.92	45.88
MW-NASB-80	Y Y	Y	0	0	Good		58.51	11.68	19.04	46.83
MW-NASB-81	Y Y	Y	0	0	Good		58.22	11.33	18.85	46.89
MW-NASB-22	Y Y	Y	0	0	Good		59.52	10.43	17.97	49.09
MW-NASB-204	Y Y	Y	0	0	Good		62.09	9.85	17.93	52.24
MW-NASB-227	Y Y	Y	0	0	Good		58.39	10.33	40.60	48.06
SG-1B	—	—	—	—	—			+2.73	NA	
SG-2A	—	—	—	—	—		34.41	+2.40	NA	36.81

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 17 WEx	Project No: 29600.47	Date: 9/5/00
Weather/Temperature:		
EA Personnel: SC	Equipment: Slope indicator, TVA-1000	

Well No.	Labeled/ Capped	Well Locked	VOCs Concentration (ppm)		Casing/Seal Condition	Protective Casing Elevation (ft MSL)	PVC Casing Elevation (ft MSL)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft MSL)
			Air Ambient	Well Mouth						
MW-NASB-8	Y Y	Y	0	0	Good		59.22	3.59	13.15	55.63
MW-NASB-9	Y Y	Y	0	0	Good		59.60	4.55	11.50	54.45
MW-NASB-10	Y Y	Y	0	0	Good		62.03	7.06	12.40	54.97
MW-NASB-23	Y Y	Y	0	0	Good		67.29	7.96	21.90	59.33
MW-NASB-24	Y Y	Y	0	0	Good		65.31	6.79	13.15	58.52
MW-NASB-25	Y Y	Y	0	0	Good		64.34	7.02	14.70	57.32
MW-NASB-26	Y Y	Y	0	0	Good		66.61	7.69	12.55	58.92
MW-NASB-225	Y Y	Y	0	0	Good		64.61	6.86	14.31	57.75
MW-NASB-226	Y Y	Y	0	0	Good		62.22	5.25	12.68	56.97

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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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 9
WELL I.D.: MW-069
WELL CONDITION: Good

PROJECT NUMBER: 29600.047
WELL LOCK STATUS: locked
WEATHER: Sunny Breezy

GAUGE DATE: 9/14/00
SOUNDING METHOD: Slope ind.
STICK UP/DOWN (ft): up 2.45

GAUGE TIME: 1425
MEASUREMENT REF: Top of PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 9/14/00
PURGE METHOD: pump/Low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: ~~1435~~ SC 1430
FIELD PERSONNEL: MDS
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 42.42
B. DEPTH TO WATER (ft): 11.37
C. LIQUID DEPTH (ft) (A-B): 31.05

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 18.8
F. THREE WELL VOLUMES (L) (E*3): 56.4

Parameter	Beginning	1	2	3	4	5
Time (min)	1430	1435	1440	1445	1450	1455
Depth to Water (ft)	11.37	11.47	11.47	11.47	11.47	11.47
Purge Rate (L/min)	.1	.1	.1	.1	.1	.1
Volume Purged (L)	0	.5	1.0	1.5	~~1.5~~ 2.0	~~2.0~~ 2.5
pH	5.31	5.69	5.74	5.23	5.61	5.70
Temperature (°C)	16.70	15.81	16.53	16.76	16.70	16.9
Conductivity (μmhos/cm)	547	499	497	486	482	486
Dissolved Oxygen (mg/L)	1.65	1.21	1.18	1.24	1.15	1.11
Turbidity (NTU)	48.9	63.6	86	2.7	1.3	0.8
Eh (mv)	46.6	74.2	82.7	87.5	89.5	92.2

TOTAL QUANTITY OF WATER REMOVED (L): ~~3~~ 5

SAMPLERS: MC
SAMPLING TIME (START/END): 1458
SAMPLING DATE: 9-14-00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: HCL, HNO_3
SAMPLE BOTTLE IDs: BN17-59-mw069
SAMPLE PARAMETERS: VOC, SVOC, metals

COMMENTS AND OBSERVATIONS: ph OK

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-70
WELL CONDITION: good

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

GAUGE DATE: 9-14-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 919
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-14-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 920
FIELD PERSONNEL: SC, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 27.30
B. DEPTH TO WATER (ft): 12.19
C. LIQUID DEPTH (ft) (A-B): 15.11
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 9
F. THREE WELL VOLUMES (L) (E*3): 27

Parameter	Beginning	1	2	3	4	5
Time (min)	923	926	929	932	935	
Depth to Water (ft)	12.75	12.75	12.75	12.75	12.75	
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	
Volume Purged (L)	0.3	0.6 SC	0.9	1.2	1.5	
pH	4.71	5.13	5.38	5.47	5.52	
Temperature (°C)	14.10	14.44	15.22	15.57	15.72	
Conductivity (μmhos/cm)	109	92	87	89	92	
Dissolved Oxygen (mg/L)	2.71	2.24	1.97	1.95	1.83	
Turbidity (NTU)	1	1	1	1	1	
Eh (mv)	207	203	199	197	195	

TOTAL QUANTITY OF WATER REMOVED (L): 4

SAMPLERS: SC, SW
SAMPLING TIME (START/END): 940
SAMPLING DATE: 9-14-00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HNO_3
SAMPLE BOTTLE IDs: BN-17-59-MW070
SAMPLE PARAMETERS: metals, SVOC
COMMENTS AND OBSERVATIONS:

pH check OK

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-71
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: locked
WEATHER: rainy, 60°

GAUGE DATE: 9-15-00
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft): 2.80

GAUGE TIME: 930
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-15-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 935
FIELD PERSONNEL: SC, BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 21.54
B. DEPTH TO WATER (ft): 1.51
C. LIQUID DEPTH (ft) (A-B): 20.03

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)	940	945	950	955		
Depth to Water (ft)	3.28	3.28	3.28	3.28		
Purge Rate (L/min)	1	1	1	1		
Volume Purged (L)	5	10	15	20		
pH	6.41	6.44	6.44	6.44		
Temperature (°C)	14.16	14.24	14.25	14.26		
Conductivity (μmhos/cm)	246	236	240	237		
Dissolved Oxygen (mg/L)	2.01	1.99	1.96	1.95		
Turbidity (NTU)	8	5	5	5		
Eh (mv)	54	50	49	47		

TOTAL QUANTITY OF WATER REMOVED (L): 26

SAMPLERS: SC BA
SAMPLING TIME (START/END): 1000
SAMPLING DATE: 9-15-00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-17-S9 -MW071
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

ph check OK

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-072
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: good
WEATHER: sunny ± 70

GAUGE DATE: 9/14/00
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): 2.25

GAUGE TIME: 0845
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9/14/00
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0852
FIELD PERSONNEL: BA/LS
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 14.60
B. DEPTH TO WATER (ft): ~~9.47~~
C. LIQUID DEPTH (ft) (A-B): 5.13

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 3.1
F. THREE WELL VOLUMES (L) (E*3): 9.3

Parameter	Beginning	1	2	3	4	5
Time (min)	0852	0857	0902	~~0857~~ 0907	~~0902~~ 0912	~~0907~~ 0917
Depth to Water (ft)	9.67	9.66	9.65	9.67	9.66	9.66
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	0.2	1.2	2.2	3.2	4.2	5.2
pH	6.52	6.47	6.47	6.47	6.48	6.47
Temperature (°C)	13.35	14.80	15.96	16.29	16.42	16.50
Conductivity (μmhos/cm)	249	250	253	256	254	252
Dissolved Oxygen (mg/L)	4.11	2.47	2.44	2.48	2.46	2.40
Turbidity (NTU)	40	14	13	13	11	11
Eh (mv)	217	198	188	181	175	171

TOTAL QUANTITY OF WATER REMOVED (L): 74

SAMPLERS: BA/LS
SAMPLING TIME (START/END): 0920/
SAMPLING DATE: 9/14/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-17-S9-MW072
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

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

Site Name: Site 9	Project No.: 29600.47	Date: 9/14/00
Well ID: MW-NASB-072	Field Personnel: BA/CS	

Parameter	6	7	8	9	10	11
Time (min.)	0922	0925	0928			
Depth to Water (ft)	9.65	9.64	9.63			
Purge Rate (L/min)	0.2	0.2	0.2			
Volume Purged (L)	6.2	6.8	7.4			
pH	6.46	6.46	6.47			
Temperature (°C)	16.97	17.01	17.05			
Conductivity (μmhos/cm)	252	249	251			
Dissolved Oxygen (mg/L)	2.37	2.36	2.38			
Turbidity (NTU)	8	6	6			
Eh (mv)	165	163	163			

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 9
WELL I.D.: MW-NASB-074
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: good
WEATHER: sunny ≈74

GAUGE DATE: 9/14/00
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): 1.9

GAUGE TIME: ~~0943~~ 1329
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9/14/00
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1330
FIELD PERSONNEL: BA/LS
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 27.12
B. DEPTH TO WATER (ft): 9.93
C. LIQUID DEPTH (ft) (A-B): 17.19
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 10.4
F. THREE WELL VOLUMES (L) (E*3): 31.2

Parameter	Beginning	1	2	3	4	5
Time (min)	1305	1310	1315	1318	1321	1324
Depth to Water (ft)	9.93	10.25	10.11	10.11	10.12	10.11
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1.0	2.0	3.0	3.6	4.2	4.8
pH	6.59	6.29	6.48	6.51	6.52	6.52
Temperature (°C)	12.76	12.92	13.15	13.24	13.25	13.22
Conductivity (μmhos/cm)	381	~~3~~ 270	275	274	273	272
Dissolved Oxygen (mg/L)	2.39	2.81	2.63	2.62	2.59	2.58
Turbidity (NTU)	142	60	13	7	5	4
Eh (mv)	140	101	94	91	90	89

TOTAL QUANTITY OF WATER REMOVED (L): 4.8

SAMPLERS: BA/LS
SAMPLING TIME (START/END): 1325
SAMPLING DATE: 9/14/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-17-59-MW074
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-075
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: good
WEATHER: Sunny ≠ 75

GAUGE DATE: 9/14
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): 2.00

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

PURGE DATE: 9/14
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1335
FIELD PERSONNEL: BA/CS
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 21.22
B. DEPTH TO WATER (ft): 13.76
C. LIQUID DEPTH (ft) (A-B): 7.46

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.5
F. THREE WELL VOLUMES (L) (E*3): 13.5

Parameter	Beginning	1	2	3	4	5
Time (min)	1340	1345	1350	1353	1356	
Depth to Water (ft)	13.76	13.87	13.98	13.98	13.98	
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	
Volume Purged (L)	1.0	2.0	3.0	3.6	4.2	
pH	6.21	6.23	6.22	6.22	6.22	
Temperature (°C)	15.60	16.09	17.01	17.85	18.16	
Conductivity (μmhos/cm)	314	316	317	318	316	
Dissolved Oxygen (mg/L)	3.55	3.57	3.58	3.56	3.52	
Turbidity (NTU)	2	2	1	1	1	
Eh (mv)	123	129	129	131	133	

TOTAL QUANTITY OF WATER REMOVED (L): 4.2

SAMPLERS: BA/CS
SAMPLING TIME (START/END): 1359

SAMPLING DATE: 9/14
DECONTAMINATION FLUIDS USED: DI

SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl

SAMPLE BOTTLE IDs: ~~VOC~~ BN77-S9-MW075

SAMPLE PARAMETERS: VOC BN-17-S9-MW075

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NAS B-076
WELL CONDITION: good

PROJECT NUMBER: 29600.47
WELL LOCK STATUS: locked
WEATHER: sunny ± 70

GAUGE DATE: 9/14
SOUNDING METHOD: WLI
STICK UP/DOWN (ft):

GAUGE TIME: 1426
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9/14
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 1429
FIELD PERSONNEL: BA/CS
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 19.94
B. DEPTH TO WATER (ft): 11.47
C. LIQUID DEPTH (ft) (A-B): 8.47
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5
F. THREE WELL VOLUMES (L) (E*3): 15

Parameter	Beginning	1	2	3	4	5
Time (min)	1429	1434	1439	1444	1449	1452
Depth to Water (ft)	11.47	11.63	11.68	11.54	11.54	11.54
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	.2	1.2	2.2	3.2	4.2	4.8
pH	3.40	5.83	6.15	6.32	6.37	6.40
Temperature (°C)	15.9	16.22	16.68	16.93	16.90	16.91
Conductivity (μmhos/cm)	298	297	290	290	289	290
Dissolved Oxygen (mg/L)	3.66	2.94	2.92	2.89	2.84	2.86
Turbidity (NTU)	2	1	1	1	1	1
Eh (mv)	158	140	135	129	126	124

TOTAL QUANTITY OF WATER REMOVED (L): 4.8

SAMPLERS: BA/CS
SAMPLING TIME (START/END): 1455
SAMPLING DATE: 9/14
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: VOC
SAMPLE PARAMETERS: BN-17-59-MW076 / BN-17-59-MW XDQ
COMMENTS AND OBSERVATIONS: *Dup 2 taken here
containing water

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site9
WELL I.D.: MW-NASB79
WELL CONDITION: good

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

GAUGE DATE: 9-14-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 955
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-14-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1000
FIELD PERSONNEL: SE, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 19.00
B. DEPTH TO WATER (ft): 12.35
C. LIQUID DEPTH (ft) (A-B): 6.65

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4
F. THREE WELL VOLUMES (L) (E*3): 12

Parameter	Beginning	1	2	3	4	5
Time (min)	1005	1010	1015	1018	1021	1024
Depth to Water (ft)	12.61	12.61	12.61	12.61	12.61	12.61
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	0.5	1	1.5	1.8	2.1	2.4
pH	6.57	6.64	6.67	6.69	6.70	6.70
Temperature (°C)	17.18	18.95	19.28	19.37	19.42	19.41
Conductivity (μmhos/cm)	286	282	282	285	285	285
Dissolved Oxygen (mg/L)	0.77	0.84	0.82	0.81	0.80	0.79
Turbidity (NTU)	52	11	4	3	3	3
Eh (mv)	-88	-116	-128	-134	-138	-140

TOTAL QUANTITY OF WATER REMOVED (L): 5 ~~3~~ 5.5

SAMPLERS: SE, SW
SAMPLING TIME (START/END): 1025
SAMPLING DATE: 9-14-00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HNO_3
SAMPLE BOTTLE IDs: BN-17-59-MW079
SAMPLE PARAMETERS: metals, SVOC

COMMENTS AND OBSERVATIONS:

phcheckok

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
PROJECT NUMBER: 29610047
WELL I.D.: MW-NASB ~~79~~80
WELL LOCK STATUS: Locked
WELL CONDITION: good
WEATHER: Sunny 75

GAUGE DATE: 9/14/00
GAUGE TIME: 1325
SOUNDING METHOD: slope indicator
MEASUREMENT REF: TOC
STICK UP/DOWN (ft): 2.05
WELL DIAMETER (in.): 2

PURGE DATE: 9/14/00
PURGE TIME: ~~1330~~ SC 1325
PURGE METHOD: low flow
FIELD PERSONNEL: MC SW
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 19.04
B. DEPTH TO WATER (ft): 11.57
C. LIQUID DEPTH (ft) (A-B): 7.47
D. WELL VOLUME/FT (L): ~~1330~~ SC 0.605
E. WELL VOLUME (L) (C*D): ~~MC SW~~ SC 4.5
F. THREE WELL VOLUMES (L) (E*3): 13.5

Parameter	Beginning	1	2	3	4	5	6
Time (min)	1330	1335	1340	1345	1350	1353	13[illegible]
Depth to Water (ft)	11.94	11.94	11.94	11.94	11.94	11.94	11.[illegible]
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
pH	3.46	2.38	5.11	6.11	6.30	6.36	6.38
Temperature (°C)	19.22	20.74	19.95	18.19	18.16	18.21	18.21
Conductivity (μmhos/cm)	377	393	389	397	412	402	404
Dissolved Oxygen (mg/L)	1.64	2.53	1.33	1.07	1.03	1.03	1.06
Turbidity (NTU)	22	15	8	32	1	1	1
Eh (mv)	66	-34	-63	-78	-88	-92	-92

TOTAL QUANTITY OF WATER REMOVED (L): 4

SAMPLERS: MC/SW
SAMPLING TIME (START/END): 1400
SAMPLING DATE: 9/14/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: BN-17-S9-MW080
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

pH check ok

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NTSB-22
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER: Sunny, 55

GAUGE DATE: 9-14-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 845
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-14-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 850
FIELD PERSONNEL: SC, SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 17.97
B. DEPTH TO WATER (ft): 10.54
C. LIQUID DEPTH (ft) (A-B): 7.43

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 4.5
F. THREE WELL VOLUMES (L) (E*3): 13.5

Parameter	Beginning	1	2	3	4	5
Time (min)	855	858	901	904	907	910
Depth to Water (ft)	10.64	10.64	10.64	10.64	10.64	10.64
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	0.5	0.8	1.2	1.4	1.7	2.0
pH	4.67	5.43	5.64	5.70	5.71	5.72
Temperature (°C)	14.55	15.63	16.91	18.18	18.80	19.05
Conductivity (μmhos/cm)	414	450	451	417	421	426
Dissolved Oxygen (mg/L)	5.80	4.92	4.66	4.48	4.29	4.24
Turbidity (NTU)	3	1	1	1	1	1
Eh (mv)	240	236	231	225	221	220

TOTAL QUANTITY OF WATER REMOVED (L): 3

SAMPLERS: SC, SW
SAMPLING TIME (START/END): 915
SAMPLING DATE: 9-14-00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: BN-17-S9-MW022
SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS:

ph check OK

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 9
WELL I.D.: MW-NASB-227
WELL CONDITION: good

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

GAUGE DATE: 9-15-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1005
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-15-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: ~~1008~~ SC 1005
FIELD PERSONNEL: SC, BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 40.60
B. DEPTH TO WATER (ft): 10.28
C. LIQUID DEPTH (ft) (A-B): 30.32

D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 18
F. THREE WELL VOLUMES (L) (E*3): 54

Parameter	Beginning	1	2	3	4	5
Time (min)	1010	1015	1020	1025	1030	1035
Depth to Water (ft)	10.43	10.41	10.40	10.38	10.36	10.35
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	0.5	~~.5~~ 1	1.5	2	2.5	3
pH	*	*	*	5.56	5.83	5.96
Temperature (°C)	13.96	14.93	15.03	15.18	15.30	15.37
Conductivity (μmhos/cm)	191	184	271	292	305	302
Dissolved Oxygen (mg/L)	3.37	2.43	2.38	2.42	2.28	2.25
Turbidity (NTU)	295	205	97	78	52	25
Eh (mv)	206	180	176	170	167	165

TOTAL QUANTITY OF WATER REMOVED (L): 6.5

SAMPLERS: SC, BA
SAMPLING TIME (START/END): 1105

SAMPLING DATE: 9-15-00
DECONTAMINATION FLUIDS USED: none

SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL

SAMPLE BOTTLE IDs: BN-17-59- MW227 MS/MSD

SAMPLE PARAMETERS: VOC

COMMENTS AND OBSERVATIONS: emptied Flow cell at 1012

* ph slow to respond. (Started at <2pH)
ph check ok

EA Engineering, Science, and Technology

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

Site Name: Site9	Project No.: 2960047	Date: 9-15-00
Well ID: MW-NASB-227	Field Personnel: SC Bin	

Parameter	6	7	8	9	10	11
Time (min.)	1040	1045	1050	1055	1100	
Depth to Water (ft)	10.35	10.35	10.34	10.34	10.34	
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	
Volume Purged (L)	3.5	4	4.5	5	5.5	
pH	6.00	6.05	6.07	6.08	6.09	
Temperature (°C)	15.41	15.42	15.43	15.43	15.43	
Conductivity (μmhos/cm)	222	219	225	220	222	
Dissolved Oxygen (mg/L)	2.24	2.17	2.13	2.18	2.14	
Turbidity (NTU)	19	11	8	6	5	
Eh (mv)	169	162	162	162	162	

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 _____

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: Site 9			Project Number: 29600477517
Sample Location ID: SW-10			Date: 20 Sept 2006
Time:	~~Start~~ water: 1515	~~End~~ sediment: 1520	Sample Team Members: BA, SW

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 0.6 (ft)

Depth of Sample from Top of Water 0.5 (ft)

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

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

Water Quality Parameters
( ) Temperature 16.1
( ) Conductivity 255 µmhs/cm
( ) pH 6.57 units
( ) Dissolved oxygen 8.25 mg/L
( ) Turbidity 5 NTU
( ) Eh 118 mv

Muskrat dam
20' above sample location

~~MS/M~~

Velocity Measurements Obtained? ( ) No (✓) Yes, See Flow Measurement Data Record 0.2 Ft/sec

Field QC Data: ( ) Field Duplicate Collected
Duplicate ID _____
(X) 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
(X) Encore Sampler

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

Sample Observations:
( ) Odor
( ) Color gray
( )

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			
✓	✓		✓	120ml	✓	BN-17	S9-SW	010	
✓		✓	✓	40ml	✓	BN-17	S9-SD	010	

NOTES/SKETCH

EA Engineering, Science, and Technology

FIELD RECORD OF SURFACE WATER AND SEDIMENT SAMPLING

Site Name: Site 9			Project Number: 29600.47
Sample Location ID: LT-901			Date:
Time:	~~Start~~ Water: 1525	End:	Sample Team Members:

SURFACE WATER INFORMATION

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

Water Depth and Sample Location 0.6 (ft)

Depth of Sample from Top of Water 0.5 (ft)

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

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

Water Quality Parameters
( ) Temperature 17.60
( ) Conductivity 270 µmhs/cm
( ) pH 6.44 units
( ) Dissolved oxygen 4.17 mg/L
( ) Turbidity 80 NTU
( ) Eh 70 mv

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

Field QC Data: (✓) Field Duplicate Collected
Duplicate ID BN-17-S9-LT XD1
( ) 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
( ) _____

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			
✓	✓		✓	120ml	✓	BN-17-S9-LT	901		
✓	✓		✓	120ml	✓	BN-17-S9-LT	XD1		

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 Final Quality Assurance Project Plan (QAPP) (EA 1999)[1] were met.

The sampling program consisted of 16 aqueous samples of ground water, surface water, and leachate seep (of which 3 were field duplicates), and 2 sediment samples (of which 1 was a field duplicate) collected from Site 9. The laboratory was provided with 1 sediment and 2 aqueous sample delivery groups (SDGs) that included 5 aqueous quality control samples (2 trip blanks, 2 rinsate blanks, and 1 source water blank). Sample duplicates, rinsate blanks, and trip blanks were collected at the frequency required by the QAPP.

Analytical quality control was reviewed for compliance against data quality objectives for precision and accuracy for each sample and analysis type, including field quality control blanks (i.e., trip blanks) 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 standards (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 LCS recoveries. MS/MSD and SMC recoveries measure the effect of the sample matrix on sample preparation and measurement methodology. During the MS/MSD process, 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.

Field completeness was quantified by comparing the number of samples specified in the Final Long-Term Monitoring Plan (EA 1999) to the number of samples actually collected during Monitoring Event 17. Data completeness was quantified by reviewing the number of usable results to the number of results reported.

1. EA Engineering, Science, and Technology. 1999. Final Long-Term Monitoring Plan, Site 9 (Neptune Drive Disposal Site), Naval Air Station, Brunswick. August.

For clarity, the following definitions are given for use throughout Appendix C:

- ***Instrument Detection Limit (IDL)***—Defined as the lowest concentration level 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 sediment 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 IDL 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 table summarizes the findings for the data quality review performed and presented in detail in this appendix:

Data Quality Review		Holding Time	Field Blank Cont.	Precision		Accuracy			Completeness	
				Laboratory	Field	SMC	MS/MSD	LCS	Analytical	Field
Aqueous Matrix	VOC	✔	✔B	✔	✔	✔	✔	✔	100%✔	100%✔
	Metals	✔	✔B	✔	✔J	NA	✔	✔	100%✔	100%✔
	SVOC	✔	✔	✔	✔	✔	✔	✔	100%✔	100%✔
Sediment Matrix	Metals	✔	✔B	✔	✔	✔	✔J	✔	100%✔	100%✔

NOTE:
- VOC = Volatile organic compound.
- ✔ = 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 the true concentrations.
- NA = The quality measurement does not apply to this matrix or analytical methodology.
- SVOC = Semivolatile organic compound.

All VOC and metals data for Site 9 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 (Section C.3), 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 1999). Field duplicate samples were collected for each matrix (i.e., sediment, ground water, and leachate seep) 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 assessed 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 decontaminated sampling equipment and into the appropriate sample containers, and analyzing for the same parameters as the samples. In addition, a source water blank was analyzed to assess the chemical quality of the water used in the decontamination sequence. The source water blank was also associated with samples collected at Sites 1 and 3 and Eastern Plume under a separate SDG.

C.1.2 Laboratory Analytical Quality Control Program

The precision and accuracy objectives and reporting requirements identified in the Long-Term Monitoring Plan were met. Ground-water and leachate seep samples were collected for analysis of Target Compound List VOC by EPA Method 8260B, and 4 ground-water samples (including 1 duplicate sample) were also analyzed for both Target Analyte List elements by EPA Methods 6010A and 7000 series and Target Compound List semivolatile organic compounds (SVOCs) by EPA Method 8270C. Sediment samples were collected for analysis of Target Analyte List elements by EPA Methods 6010A and 7000 series.

C.2 SAMPLE HOLDING TIMES

The holding times were met for all method and sample matrixes. Holding times (from date of sample collection to date of sample preparation/analysis) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods.

C.3 PRECISION

C.3.1 Volatile Organic Compounds

The analytical precision was determined to be acceptable and the aqueous volatile organic data usable as reported based on the review of laboratory precision. All 40 VOCs were used to quantify the MS/MSD RPDs. The control limits identified in the QAPP were used to evaluate the data. The MS/MSD analyses were performed on 2 samples (MW-NASB-227 and SW-010).

There were no leachate seep samples designated for MS/MSD analyses, therefore, leachate seep samples were not evaluated for analytical precision. The surface water and monitoring well sample MS/MSD RPDs were within the established control limits, therefore, analytical precision was determined to be acceptable and the usability of the data is unaffected.

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. The sediment laboratory duplicate precision measurements were within the laboratory control limits, therefore, the sediment metals data are considered usable based on the review of analytical precision. All 23 analytes were used to quantify the laboratory duplicate RPD. The control limits identified in the QAPP were used to evaluate the aqueous duplicate RPD for Target Analyte List metals. The laboratory replicated the analyses of MW-NASB-069 and SED-010.

C.3.3 Semivolatile Organic Compounds

Eleven SVOCs were used to quantify the MS/MSD RPD. The aqueous control limits identified in the QAPP were used to qualify the MS/MSD RPD. There were no ground-water samples designated for MS/MSD analyses, therefore, ground-water samples were not evaluated for analytical precision.

C.4 ACCURACY

C.4.1 Volatile Organic Compounds

The surface water, leachate seep, and monitoring well SMC recoveries were within established control limits; therefore, the analytical results are usable as reported. Four SMCs are 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.

Based on the conformance of MS/MSD and accuracy of LCS recoveries, analytical results are usable as reported. All 40 VOCs were used to quantify MS/MSD recoveries against laboratory established control limits. The recovery limits reported by the laboratory were the same as those identified in the QAPP. The samples chosen for MS/MSD are identified in Section C.3.1.

The surface water sample MS/MSD recoveries were within the established control limits, with the exception of acetone (41 and 43 percent), carbon disulfide (48 and 54 percent), carbon tetrachloride (56 percent), and vinyl chloride (54 percent). These recoveries 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 were within the established control limits, with the exception of acetone (38 and 41 percent). The results for acetone suggest a potential low bias for this compound, however, since this compound was not detected in the monitoring well samples, the data are usable as reported.

All 40 VOCs were used to quantify the LCS recoveries against laboratory established control limits. Aqueous LCS recoveries were within laboratory established control limits, with the exception of acetone (51 percent) for the leachate and surface water samples and acetone (43 percent) for the monitoring well samples. The results for acetone in sample LT-901 DUP should be considered estimated.

C.4.2 Target Analyte List Metals

Nineteen Target Analyte List analytes were used to quantify MS recoveries for aqueous samples. Calcium, magnesium, potassium, and sodium are 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 on the sample identified in Section C.3.2. The ground-water MS recoveries were within the established control limits, therefore, all ground-water data are usable as reported based on the review of MS accuracy.

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 (64.9 and 66.1 percent), calcium (139.7 and 136.9 percent), magnesium (181.5 and 141.8 percent), and manganese (140.0 percent). The non-detect result for antimony in samples SED-010 and SED-010 DUP should be considered estimated bias low. The analytical result for calcium, magnesium, and manganese in samples SED-010 and SED-010 DUP should be considered estimated bias low.

All 23 Target Analyte List analytes were used to quantify LCS recoveries against laboratory established control limits. There were no LCS recoveries presented in the QAPP. The aqueous and sediment LCS recoveries were compliant. All aqueous and sediment data are usable based on the review of the LCS accuracy.

C.4.3 Semivolatile Organic Compounds

Semivolatile data are usable as reported based on the review of analytical accuracy for SMC. Six SMCs were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The aqueous sample SMC recoveries were within the established control limits.

All 64 compounds were used to qualify the MS/MSD recoveries. The control limits stated in the QAPP were used to evaluate the data. There were no ground-water samples designated for MS/MSD analyses, therefore, ground-water samples were not evaluated for analytical precision.

All 64 SVOCs were used to quantify the LCS recoveries against the limits stated in the QAPP. The LCS recoveries were within the control limits, with the exception of 1,2,4-trichlorobenzene (62 percent), 1,2-dichlorobenzene (68 percent), 1,3-dichlorobenzene (67 percent), 1,4-dichlorobenzene (64 percent), 2,2'-oxybis(1-chloropropane) (63 percent), 2,4-dimethylphenol (67 percent), 2-methylphenol (70 percent), 2-nitroaniline (69 percent), 3,3'-dichlorobenzidine (60 percent), 4-chloroaniline (58 percent), 4-methylphenol (68 percent), acenaphthene (56 percent), acenaphthylene (55 percent), anthracene (68 percent), benzo(a)anthracene (60 percent), benzo(a)pyrene (62 percent), benzo(b)fluoranthene (58 percent), benzo(g,h,i) perylene (66 percent), benzo(k)fluoranthene (63 percent), bis(2-chloroethoxy)methane (67 percent), chrysene (67 percent), dibenz(a,h)anthracene (57 percent), fluoranthene (65 percent), fluorene (61 percent), hexachlorobenzene (66 percent), hexachloro-butadiene (57 percent), hexachlorocyclopentadiene (25 percent), hexachloroethane (62 percent), indeno(1,2,3-cd)pyrene (66 percent), isophorone (61 percent), n-nitroso-di-n-propylamine (67 percent), naphthalene (52 percent), nitrobenzene (69 percent), phenanthrene (67 percent), and pyrene (60 percent). 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 are usable as reported based on the review of LCS accuracy.

C.5 COMPLETENESS

Usable analytical data were available for all analytes/compounds for all field samples, and total analytical completeness is 100 percent.

Nineteen of the planned 19 aqueous field samples were collected resulting in a field completeness level of 100 percent, and 2 of 2 sediment field samples were collected resulting in a field completeness level of 100 percent.

The field quality control blanks (e.g., trip blanks) were collected at the proper frequency. A total of 2 trip blanks were collected for Site 9. There were 2 rinsate blanks collected (associated with the surface water/seep samples and the sediment samples). In addition, a source water blank was submitted for Site 9 in compliance with the QAPP.

Analytical completeness was quantitated by comparing the number of acceptable analytical results to the total number of analytical results.

C.6 FIELD QUALITY CONTROL BLANKS

Monitoring well and trip blank samples contained analytical results that are considered false-positives based on both field and method blank contamination. Field quality control rinsate blanks were collected to evaluate the potential for contamination that may have been introduced

blanks were collected to evaluate the potential for contamination that may have been introduced during the field sampling activities. Trip blanks were collected to assess the potential for cross-contamination of VOCs during sample shipment. In both cases, where contamination exists, environmental samples should be reviewed for possible false-positives.

The field quality control blanks collected for this site included 2 trip blanks, 2 equipment rinsate blanks, and 1 source water blank. The rinsate blank (QS-1) associated with the collection of surface water sampling, the rinsate blank (QS-3) associated with the collection of sediment sampling, and the source water blank (QD-1) associated with this event were collected under a separate SDG associated with Sites 1 and 3 and Eastern Plume and Site 2. The 2 trip blanks (QT-3 and QT-5) were collected during the monitoring well sampling and leachate seep/surface water sampling programs, respectively.

C.6.1 Laboratory Method Blanks

Method blanks were reviewed, and the only VOC detected in the method blanks was methylene chloride.

The positive methylene chloride results for 2 samples (QS-003 and QD-001) should be considered false-positives due to method blank contamination.

C.6.2 Trip Blanks

The field quality control blanks collected for this site included 2 trip blanks. The trip blanks (QT-3 and QT-5) were analyzed for VOCs and reported free of contamination. The analytical results of the trip blanks indicate that there was no cross-contamination of VOCs during sample shipment.

C.6.3 Rinsate Blank

The analytical results for the rinsate blanks associated with the leachate seep and the sediment collected at Site 9, and the associated source water blank, are shown in the following table:

Compound	Units	QD-001	QS-001	QS-003
Methylene chloride	µg/L	0.5JB	(<1U)	0.6JB
Acetone	µg/L	3J	(<5U)	4J
Barium	µg/L	0.29B*	(<0.48U)	(<0.23U)
Beryllium	µg/L	0.32B*	(<0.56U)	0.22B*
Calcium	µg/L	(<9.71U)	37.3B*	12.4B*
Iron	µg/L	13.1B*	24.4B*	(<11.79U)
Manganese	µg/L	0.21B*	1.6B*	(<0.16U)
Potassium	µg/L	1,440	(<338.02U)	969B*
Sodium	µg/L	1,380	92.4B*	44.3B*

NOTE: J = Estimated concentration below detection limit.
B = Compound detected in associated method blank.
U = Not detected. Sample quantitation limits are shown as (<___U).
B* = Analyte concentration is between the IDL and the CRDL.

The analytical results of the equipment rinsate blanks and the source water blank indicate that there was no contamination introduced during the field sampling activities. The source water blank (QD-001) and rinsate blanks were reported free of organic contamination with the exception of acetone. The positive results of acetone in Sample LT-901 DUP should be considered false-positive due to source water blank contamination. NOTE: See laboratory method blank Section C.6.1 for a statement about the methylene chloride contamination. There was minor metals contamination present.

Analytes barium, beryllium, calcium, and manganese in the aqueous samples far exceed the associated source water blank and rinsate blank contamination or the results were non-detected, therefore, samples were unaffected by barium, beryllium, calcium, and manganese concentrations.

Analytes barium, calcium, iron, and manganese in the sediment samples far exceed the associated source water blank and rinsate blank contamination or the results were non-detected, therefore, samples were unaffected by barium, calcium, iron, and manganese concentrations.

Iron and sodium were identified in rinsate blank (QT-003) and iron, potassium, and sodium were identified in the source water blank for the aqueous samples. Four samples (MW-NASB-069, MW-NASB-070, MW-NASB-079, and MW-NASB-069 DUP) had positive concentrations of potassium within the expected range of variability of the source water contamination and should, therefore, be considered as false-positives due to source water contamination.

One sample (MW-NASB-070) had a positive concentration of iron within the expected range of variability of the source water contamination and should, therefore, be considered as false-positives due to source water contamination.

One sample (MW-NASB-079) had a positive concentration of sodium within the expected range of variability of the source water contamination and should, therefore, be considered as false-positives due to source water contamination.

Beryllium, potassium, and sodium were identified in both the source water blank and rinsate blank (QT-003) for the sediment samples. Two samples (SED-010 and SED-010 DUP) had positive concentrations of beryllium, potassium, and sodium within the expected range of variability of the source water and rinsate blank contamination and should, therefore, be considered as false-positives due to source water contamination.

C.7 DUPLICATE FIELD SAMPLES

All precision requirements were met for the organic results for the duplicate samples (MW-NASB-069, MW-NASB-069 DUP, MW-NASB-076, MW-NASB-076 DUP, SED-010, SED-010 DUP, LT-901, and LT-901 DUP), therefore, the sample results are usable as reported. 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 was 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 the reporting limit for soil samples), and by the RPD (less than 30 percent for water samples or 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.

Duplicate field samples were collected during the monitoring well ground-water sampling program, sediment sampling program, and leachate seep sampling program. The sample locations of the field duplicated samples were not identified to the laboratory. The precision measurements for all analytes reported above the CRQL/CRDL are defined in the tables below.

The following table shows the first set of field duplicate ground-water sample results that are associated with SDG S9MW069:

Compound	Units	MW-NASB-069	MW-NASB-069 DUP	RPD%	Difference
Total 1,2-Dichloroethene	µg/L	51	52	1.9	---
Vinyl chloride	µg/L	60	60	0	---
Aluminum	µg/L	17.4B*	34.5B*	NA	17.1
Barium	µg/L	8.2	8.5	NA	0.3
Calcium	µg/L	7,270	7,250	0.3	NR
Iron	µg/L	239	447	NA	**208**
Magnesium	µg/L	2,790	2,780	0.3	NR
Manganese	µg/L	589	594	0.8	NR
Potassium	µg/L	1,340	1,180	NA	106
Sodium	µg/L	64,200	64,800	0.9	NR
Zinc	µg/L	(<1.55U)	3.4B*	NA	2.6

NOTE: 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.
U = Not detected. Sample quantitation limits are shown as (<__U).
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 organic and inorganic results for the duplicate analyses of Sample MW-NASB-069, with the exception of iron. The results for iron should be considered estimations of their true concentrations in Sample MW-NASB-069.

The following table shows the second set of field duplicate ground-water sample results that are associated with SDG S9MW069:

Compound	Units	MW-NASB-076	MW-NASB-076 DUP	RPD%
Total 1,2-Dichloroethene	µg/L	3	3	0
Vinyl chloride	µg/L	8	8	0

All precision requirements were met for the field duplicate analyses; the results are usable as reported.

The following table shows the set of field duplicate leachate seep sample results that are associated with SDG S9LT901:

Compound	Units	LT-901	LT-901 DUP	RPD%
Acetone	µg/L	(<5U)	3J	18

NOTE: U = Not detected. Sample quantitation limits are shown as (<__U).
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 sediment sample duplicate results associated with SDG S9SD010:

Compound	Units	SED-010	SED-010 DUP	RPD%	Difference
Aluminum	mg/Kg	4,550	3,660	21.6	NR
Arsenic	mg/Kg	2.2	0.99B*	NA	1.21
Barium	mg/Kg	18.2	11.4	NA	6.8
Beryllium	mg/Kg	0.40B*	0.20B*	NA	0.2
Calcium	mg/Kg	878	643	30.9	NR
Chromium	mg/Kg	9.0	6.2	NA	2.8
Cobalt	mg/Kg	3.4B*	2.7B*	NA	0.7
Copper	mg/Kg	7.9	5.5	NA	2.4
Iron	mg/Kg	5,340	4,310	21.3	NR
Lead	mg/Kg	18.5	12.3	NA	6.2
Magnesium	mg/Kg	1,420	1,030	31.8	NR
Manganese	mg/Kg	76.8	64.4	17.6	NR
Mercury	mg/Kg	0.01B*	(<0.01U)	NA	0.005
Nickel	mg/Kg	7.1	5.2	NA	1.9
Potassium	mg/Kg	733	523	NA	210
Sodium	mg/Kg	85.8	71.9	NA	13.9
Vanadium	mg/Kg	12.7	11.0	NA	1.7
Zinc	mg/Kg	24.1	17.8	NA	6.3

NOTE: NR = Not required; analyte concentration was greater than 5 times the reporting limit 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 reporting 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.

C.8 METHOD DETECTION LIMITS FOR SEDIMENT AND AQUEOUS SAMPLES

Appendix C.1 provides the method detection limits for sediment 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 Sediment and Aqueous Samples

Date: 4/12/ 2:35:17 PM

Matrix: AQ

Compound List: SIM VC

Instrument: 5973-U

hdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
41100	0.1	U3661-68

Analyst: HMP

Reviewed and Approved by:

File:

Date: 041202

Compound	Spike	U3661	U3662	U3663	U3664	U3665	U3666	U3667	U3668	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.09	0.07	0.10	0.08	0.10	0.09	0.08	0.09	0.09	0.01	0.03

Date: 3/29/2000 5:21:36 PM

Matrix: AQ

Compound List: sim vcl

Instrument: HP5972-M

Katahdin Analytical S rvices
MDL Study

Dates of Analysis	Spike	Data Files
32800	0.1	M4227-34

Analyst: HMP

Reviewed and Approved by:

File:

Date: 033000

Compound	Spike	M4227	M4228	M4229	M4230	M4231	M4232	M4233	M4234	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.12	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.01	0.03

Date: 2/26/ :36:49 AM

Matrix: AQ

Compound List: SIM VCL

Instrument: HP5972F

Frahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
22500	0.1	F4255-F4261

Analyst: KMC

Reviewed and Approved by:

File: FSIMWMDL.XLS

Date: 022802

Compound	Spike	F4255	F4256	F4257	F4258	F4259	F4260	F4261	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.14	0.17	0.16	0.16	0.15	0.13	0.14	0.15	0.01	0.04

Date: 2/26/2000 9:00:53 AM

Matrix: AQ

Compound List: SIM VCL

Instrument: HP5972S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
22500	0.1	S8724-S8730

Analyst: KMC

Reviewed and Approved by: JA

Date: 022802

File: SSIMWMDL.XLS

Compound	Spike	S8724	S8725	S8726	S8727	S8728	S8729	S8730	AVG	STD DEV	MDL
VINYL CHLORIDE	0.10	0.21	0.20	0.18	0.20	0.20	0.20	0.18	0.20	0.01	0.04

Date: 1/31[illegible] 11:23:02 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-F

[illegible]tahdin Analytical Servic s
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	1.00	[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-BUTYLBENZENE	1.00	1.19	1.02	1.01	0.9[illegible]	0.96	0.95	1.38	1.07	0.16	0.50
TETRACHLOR[illegible]ENE	1.00	1.18	1.08	1.19	1[illegible]	1.06	1.02	1.34	1.13	0.11	0.35
TETRAHYDROFURAN	5.00	5.00	4.29	3.33	2.64	3.75	3.17	3.32	3.64	0.79	2.47

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Matrix: AQ

Compound List: 8260

Instrument: 5972-F

[illegible]ahdin 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

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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

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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	2.00	2.29	2.14	2.32	2.19	2.15	2.11	2.07	2.18	0.09	0.29

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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

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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: 2/07/02

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	0.92	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
TETRACHLOROETHENE	1.00	1.15	1.12	1.17	1.13	1.[illegible]	1.15	1.01	1.14	0.07	0.22
TETRAHYDRO[illegible]N	1.00	1.25	0.66	1.10	1.07	0.[illegible]	0.59	0.77	0.91	0.25	0.77
TOLUENE	1.00	1.03	1.11	1.11	1.00	1.15	1.10	1.07	1.09	0.04	0.12

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Matrix: AQ

Compound List: 8260

Instrument: 5973-U

Kataho[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

Compound	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

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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: JB

Date: 021000

File: Q82WMDL1.XLS

Compound	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.[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	4.87	4.20	4.10	1.03	3.22

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Matrix: AQ

Compound List: 8260

Instrument: HP5970Q

hdin Analytical Services
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

Compound	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/[redacted]7:46:16 AM

Matrix: AQ

Compound List: 8260 5ML

Instrument: 5972-M

[redacted]ahdin 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: JA

Date: 021400

File: M0210MDL.XLS

Compound	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	1.00	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 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
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
TETRAHYDRO[illegible]N	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/ :46:16 AM

Matrix: AQ

Compound List: 8260 5ML

Instrument: 5972-M

[redacted]ahdin 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 waters, 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: 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]27	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]00 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 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
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
NAPHTHALENE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Date: 1/28/2000 2:13:20 PM

Matrix: Low level waters, 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 Services, 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 the 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 Services, Inc.
Method Detection Limit Study

Instrument Name:	Leeman 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
"o" denotes a high statistical outlier, as determined by the Q-test
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

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	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
Prep 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
Nickel	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
"o" denotes a high statistical outlier, as determined by the Q-test
Outliers have not been included in calculation of MDLs.

Katahdin Analytical Services, Inc.
Method Detection Limit Study

Instrument Name:	Leeman PS200
Instrument ID:	D
Matrix:	Soil
Prep Method:	EPA 7471A
Analysis Method:	EPA 7471A

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)
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

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.

Appendix D

Analytical Report Data Tables

D.1 Ground-Water Samples – Site 9
D.2 Surface Water Samples – Site 9
D.3 Sediment Samples – Site 9
D.4 Leachate Station Seep Sample

Appendix D.1

Ground-Water Samples
Site 9

APPENDIX D.1

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Monitoring Wells	
BN-17-S9-MW069	MW-NASB-069
BN-17-S9-MWXD1	MW-NASB-069 - Duplicate
BN-17-S9-MW070	MW-NASB-070
BN-17-S9-MW071	MW-NASB-071
BN-17-S9-MW072	MW-NASB-072
BN-17-S9-MW74	MW-NASB-074
BN-17-S9-MW075	MW-NASB-075
BN-17-S9-MW076	MW-NASB-076
BN-17-S9-MWXD2	MW-NASB-076 – Duplicate
BN-17-S9-MW079	MW-NASB-079
BN-17-S9-MW080	MW-NASB-080
BN-17-S9-MW022	MW-NASB-022
BN-17-S9-MW227	MW-NASB-227
Trip Blank	
BN-17-S9-QT03	Trip 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: EA Engineering
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: (207) 798-4636
Address: 175 Middlesex Turnpike
City: Bedford
State: MA
Zip Code: 01730
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WQ2813
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)	SVOC (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-17-59-MW069	9-14-00/1458	W	6	X	X	X							
✓	BN-17-59-MW070	9-14-00/940	W	3	~~3~~ 2 SC	X	X							
✓	BN-17-59-MW071 ~~MS/MSD~~	9-15-00/1000	W	~~2~~ 3 SC	X					~~MS/MSD~~				
✓	BN-17-59-MW072	9-14-00/920	W	3	X									
✓	BN-17-59-MW074	9-14-00/1325	W	3	X									
✓	BN-17-59-MW075	9-14-00/1359	W	3	X									
✓	BN-17-59-MW076	9-14-00/1455	W	3	X									
✓	BN-17-59-MW079	9-14-00/1025	W	3		X	X							
✓	BN-17-59-MW080	9-14-00/1400	W	3	X									
✓	BN-17-59 MW022	9-14-00/915	W	3	X									
✓	BN-17-59-MW227	9-15-00/1105	W	SS 39	X					MS/MSD				
✓	BN-17-59-MWXD1	9-14-00/—	W	6	X	X	X							
✓	BN-17-59-MWXD2	9-14-00/—	W	3	X									
✓	BN-17-59-QT03	9-15-00/1100	W	3	X									
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[illegible]	9/15/00 1410	Amy Recker			
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:

Lab Number: WQ2813-1
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW069	AQ	9/14/00	9/15/00	9/18/00	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	60	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	51	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:

Lab Number: WQ2813-1
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW069	AQ	9/14/00	9/15/00	9/18/00	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	81	%	1.0		
TOLUENE-D8	89	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	83	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-1
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW069	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-1
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW069	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	51	%	1.0		
PHENOL-D6	53	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-1
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW069	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	50	%	1.0		
2-FLUOROBIPHENYL	52	%	1.0		
2,4,6-TRIBROMOPHENOL	32	%	1.0		
TERPHENYL-D14	70	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-17-S9-MW069

Matrix: WATER **SDG Name:** BN17S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WQ2813-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	17.4	B		P	1
7440-36-0	ANTIMONY	2.96	U		P	1
7440-38-2	ARSENIC	2.46	U		P	1
7440-39-3	BARIUM	8.2			P	1
7440-41-7	BERYLLIUM	0.56	U		P	1
7440-43-9	CADMIUM	2.61	U		P	1
7440-70-2	CALCIUM	7270			P	1
7440-47-3	CHROMIUM	4.02	U		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	239			P	1
7439-92-1	LEAD	1.86	U		P	1
7439-95-4	MAGNESIUM	2790			P	1
7439-96-5	MANGANESE	589			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	1340			P	1
7782-49-2	SELENIUM	2.39	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	64200			P	1
7440-28-0	THALLIUM	5.12	U		P	1
7440-62-2	VANADIUM	4.01	U		P	1
7440-66-6	ZINC	1.55	U		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:

Lab Number: WQ2813-2
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD1	AQ	9/14/00	9/15/00	9/18/00	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	60	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	52	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:

Lab Number: WQ2813-2
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD1	AQ	9/14/00	9/15/00	9/18/00	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	83	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-2
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD1	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-2
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD1	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	60	%	1.0		
PHENOL-D6	63	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-2
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD1	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	54	%	1.0		
2-FLUOROBIPHENYL	56	%	1.0		
2,4,6-TRIBROMOPHENOL	33	%	1.0		
TERPHENYL-D14	74	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-17-S9-MWXD1

Matrix: WATER **SDG Name:** BN17S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WQ2813-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	34.5	B		P	1
7440-36-0	ANTIMONY	2.96	U		P	1
7440-38-2	ARSENIC	2.46	U		P	1
7440-39-3	BARIUM	8.5			P	1
7440-41-7	BERYLLIUM	0.56	U		P	1
7440-43-9	CADMIUM	2.61	U		P	1
7440-70-2	CALCIUM	7250			P	1
7440-47-3	CHROMIUM	4.02	U		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	447			P	1
7439-92-1	LEAD	1.86	U		P	1
7439-95-4	MAGNESIUM	2780			P	1
7439-96-5	MANGANESE	594			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	1180			P	1
7782-49-2	SELENIUM	2.39	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	64800			P	1
7440-28-0	THALLIUM	5.12	U		P	1
7440-62-2	VANADIUM	4.01	U		P	1
7440-66-6	ZINC	3.4	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:

Lab Number: WQ2813-3
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW070	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSODI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-3
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW070	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	45	%	1.0		
PHENOL-D6	46	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-3
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW070	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	41	%	1.0		
2-FLUOROBIPHENYL	47	%	1.0		
2,4,6-TRIBROMOPHENOL	60	%	1.0		
TERPHENYL-D14	75	%	1.0		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-17-S9-MW070

Matrix: WATER **SDG Name:** BN17S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WQ2813-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	19.2	B		P	1
7440-36-0	ANTIMONY	2.96	U		P	1
7440-38-2	ARSENIC	2.46	U		P	1
7440-39-3	BARIUM	8.5			P	1
7440-41-7	BERYLLIUM	0.56	U		P	1
7440-43-9	CADMIUM	2.61	U		P	1
7440-70-2	CALCIUM	6760			P	1
7440-47-3	CHROMIUM	4.02	U		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	4.9	B		P	1
7439-89-6	IRON	12.5	B		P	1
7439-92-1	LEAD	1.86	U		P	1
7439-95-4	MAGNESIUM	701			P	1
7439-96-5	MANGANESE	161			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	480	B		P	1
7782-49-2	SELENIUM	2.39	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	8230			P	1
7440-28-0	THALLIUM	5.12	U		P	1
7440-62-2	VANADIUM	4.01	U		P	1
7440-66-6	ZINC	1.55	U		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:

Lab Number: WQ2813-5
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW071	AQ	9/15/00	9/15/00	9/18/00	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	3	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:

Lab Number: WQ2813-5
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW071	AQ	9/15/00	9/15/00	9/18/00	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	84	%	1.0		
TOLUENE-D8	89	%	1.0		
P-BROMOFLUOROBENZENE	83	%	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:

Lab Number: WQ2813-6
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW072	AQ	9/14/00	9/15/00	9/18/00	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	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	<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:

Lab Number: WQ2813-6
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW072	AQ	9/14/00	9/15/00	9/18/00	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	86	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	84	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-7
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW074	AQ	9/14/00	9/15/00	9/18/00	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	3	ug/L	1.0	1.0	1.0
CHLOROFORM	J0.5	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	3	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	J0.7	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:

Lab Number: WQ2813-7
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW074	AQ	9/14/00	9/15/00	9/18/00	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	89	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	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:

Lab Number: WQ2813-8
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW075	AQ	9/14/00	9/15/00	9/18/00	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:

Lab Number: WQ2813-8
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW075	AQ	9/14/00	9/15/00	9/18/00	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	88	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	90	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-9
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW076	AQ	9/14/00	9/15/00	9/18/00	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	8	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	3	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:

Lab Number: WQ2813-9
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW076	AQ	9/14/00	9/15/00	9/18/00	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	90	%	1.0		
TOLUENE-D8	91	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	93	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-12
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD2	AQ	9/14/00	9/15/00	9/18/00	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	8	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	3	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:

Lab Number: WQ2813-12
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MWXD2	AQ	9/14/00	9/15/00	9/18/00	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	90	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	83	%	1.0		
1,2-DICHLOROETHANE-D4	94	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-4
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW079	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes: O-13

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-4
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW079	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	64	%	1.0		
PHENOL-D6	62	%	1.0		

Report Notes: O-13

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-4
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW079	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	57	%	1.0		
2-FLUOROBIPHENYL	56	%	1.0		
2,4,6-TRIBROMOPHENOL	33	%	1.0		
TERPHENYL-D14	72	%	1.0		

Report Notes: O-13

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-4RA
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW079	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHYL)ETHER	<10	ug/L	1.0	10	10
2-CHLOROPHENOL	<10	ug/L	1.0	10	10
1,3-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,4-DICHLOROBENZENE	<10	ug/L	1.0	10	10
1,2-DICHLOROBENZENE	<10	ug/L	1.0	10	10
2-METHYLPHENOL	<10	ug/L	1.0	10	10
2,2'-OXYBIS(1-CHLOROPROPANE)	<10	ug/L	1.0	10	10
4-METHYLPHENOL	<10	ug/L	1.0	10	10
N-NITROSO-DI-N-PROPYLAMINE	<10	ug/L	1.0	10	10
HEXACHLOROETHANE	<10	ug/L	1.0	10	10
NITROBENZENE	<10	ug/L	1.0	10	10
ISOPHORONE	<10	ug/L	1.0	10	10
2-NITROPHENOL	<10	ug/L	1.0	10	10
2,4-DIMETHYLPHENOL	<10	ug/L	1.0	10	10
BIS(2-CHLOROETHOXY)METHANE	<10	ug/L	1.0	10	10
2,4-DICHLOROPHENOL	<10	ug/L	1.0	10	10
1,2,4-TRICHLOROBENZENE	<10	ug/L	1.0	10	10
NAPHTHALENE	<10	ug/L	1.0	10	10
4-CHLOROANILINE	<10	ug/L	1.0	10	10
HEXACHLOROBUTADIENE	<10	ug/L	1.0	10	10
4-CHLORO-3-METHYLPHENOL	<10	ug/L	1.0	10	10
2-METHYLNAPHTHALENE	<10	ug/L	1.0	10	10
HEXACHLOROCYCLOPENTADIEN	<10	ug/L	1.0	10	10
2,4,6-TRICHLOROPHENOL	<10	ug/L	1.0	10	10
2,4,5-TRICHLOROPHENOL	<25	ug/L	1.0	25	25
2-CHLORONAPHTHALENE	<10	ug/L	1.0	10	10
2-NITROANILINE	<25	ug/L	1.0	25	25
DIMETHYL PHTHALATE	<10	ug/L	1.0	10	10
ACENAPHTHYLENE	<10	ug/L	1.0	10	10
2,6-DINITROTOLUENE	<10	ug/L	1.0	10	10
3-NITROANILINE	<25	ug/L	1.0	25	25
ACENAPHTHENE	<10	ug/L	1.0	10	10

Report Notes: O-13

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-4RA
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW079	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<25	ug/L	1.0	25	25
4-NITROPHENOL	<25	ug/L	1.0	25	25
DIBENZOFURAN	<10	ug/L	1.0	10	10
2,4-DINITROTOLUENE	<10	ug/L	1.0	10	10
DIETHYLPHTHALATE	<10	ug/L	1.0	10	10
4-CHLOROPHENYL-PHENYLETHE	<10	ug/L	1.0	10	10
FLUORENE	<10	ug/L	1.0	10	10
4-NITROANILINE	<25	ug/L	1.0	25	25
4,6-DINITRO-2-METHYLPHENOL	<25	ug/L	1.0	25	25
N-NITROSODIPHENYLAMINE	<10	ug/L	1.0	10	10
4-BROMOPHENYL-PHENYLETHER	<10	ug/L	1.0	10	10
HEXACHLOROBENZENE	<10	ug/L	1.0	10	10
PENTACHLOROPHENOL	<25	ug/L	1.0	25	25
PHENANTHRENE	<10	ug/L	1.0	10	10
ANTHRACENE	<10	ug/L	1.0	10	10
CARBAZOLE	<10	ug/L	1.0	10	10
DI-N-BUTYLPHTHALATE	<10	ug/L	1.0	10	10
FLUORANTHENE	<10	ug/L	1.0	10	10
PYRENE	<10	ug/L	1.0	10	10
BUTYLBENZYLPHTHALATE	<10	ug/L	1.0	10	10
3,3'-DICHLOROBENZIDINE	<10	ug/L	1.0	10	10
BENZO[A]ANTHRACENE	<10	ug/L	1.0	10	10
CHRYSENE	<10	ug/L	1.0	10	10
BIS(2-ETHYLHEXYL)PHTHALATE	<10	ug/L	1.0	10	10
DI-N-OCTYLPHTHALATE	<10	ug/L	1.0	10	10
BENZO[B]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[K]FLUORANTHENE	<10	ug/L	1.0	10	10
BENZO[A]PYRENE	<10	ug/L	1.0	10	10
INDENO[1,2,3-CD]PYRENE	<10	ug/L	1.0	10	10
DIBENZ[A,H]ANTHRACENE	<10	ug/L	1.0	10	10
BENZO[G,H,I]PERYLENE	<10	ug/L	1.0	10	10
2-FLUOROPHENOL	56	%	1.0		
PHENOL-D6	62	%	1.0		

Report Notes: O-13

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-4RA
SDG: BN17S9MW069
Report Date: 10/3/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW079	AQ	9/14/00	9/15/00	9/18/00	JRN	3520	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	54	%	1.0		
2-FLUOROBIPHENYL	52	%	1.0		
2,4,6-TRIBROMOPHENOL	51	%	1.0		
TERPHENYL-D14	62	%	1.0		

Report Notes: O-13

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-17-S9-MW079

Matrix: WATER **SDG Name:** BN17S9MW069

Percent Solids: 0.00 **Lab Sample ID:** WQ2813-004

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	21.6	B		P	1
7440-36-0	ANTIMONY	2.96	U		P	1
7440-38-2	ARSENIC	3.2	B		P	1
7440-39-3	BARIUM	297			P	1
7440-41-7	BERYLLIUM	0.56	U		P	1
7440-43-9	CADMIUM	0.28	U		P	1
7440-70-2	CALCIUM	32600			P	1
7440-47-3	CHROMIUM	4.02	U		P	1
7440-48-4	COBALT	2.98	U		P	1
7440-50-8	COPPER	1.93	U		P	1
7439-89-6	IRON	23300			P	1
7439-92-1	LEAD	1.86	U		P	1
7439-95-4	MAGNESIUM	2080			P	1
7439-96-5	MANGANESE	125			P	1
7439-97-6	MERCURY	0.19	B		CV	1
7440-02-0	NICKEL	11.90	U		P	1
7440-09-7	POTASSIUM	3320			P	1
7782-49-2	SELENIUM	2.39	U		P	1
7440-22-4	SILVER	2.74	U		P	1
7440-23-5	SODIUM	5020			P	1
7440-28-0	THALLIUM	5.12	U		P	1
7440-62-2	VANADIUM	4.01	U		P	1
7440-66-6	ZINC	1.55	U		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:

Lab Number: WQ2813-10
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW080	AQ	9/14/00	9/15/00	9/18/00	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	9	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:

Lab Number: WQ2813-10
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW080	AQ	9/14/00	9/15/00	9/18/00	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	91	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	95	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-11
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW022	AQ	9/14/00	9/15/00	9/18/00	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:

Lab Number: WQ2813-11
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW022	AQ	9/14/00	9/15/00	9/18/00	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	93	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-14
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW227	AQ	9/15/00	9/15/00	9/18/00	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	3	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	3	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:

Lab Number: WQ2813-14
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-MW227	AQ	9/15/00	9/15/00	9/18/00	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	91	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	84	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2813-13
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-QT03	AQ	9/15/00	9/15/00	9/18/00	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:

Lab Number: WQ2813-13
SDG: BN17S9MW069
Report Date: 9/22/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/18/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-QT03	AQ	9/15/00	9/15/00	9/18/00	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	96	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		

Report Notes:

Appendix D.2

Surface Water Samples
Site 9

APPENDIX D.2

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Surface Water Samples	
BN-17-S9-SW10	SW-010
Trip Blank	
BN-17-S9-QT05	Trip Blank
BN-17-S1-QT07	Trip Blank
Equipment Rinsate Blank	
BN-2-S2-QS001W	Rinse Blank
Source Water Blank	
BN-17-S1-QD001	Source Water

CHAIN of CUSTODY

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

PLEASE PRINT IN PEN

Page ____ of ____

Unit: EA

Contact: Sue Chase

Phone #: (207) 798-5977

Fax #: (207) 798-4636

Address: 175 Middlesex Turnpike

City: Bed Ford

State: MA

Zip Code: 01730

Purchase Order #

Proj. Name / No.

Katahdin Quote #

Bill (if different than above)

Address

Copies To:

Sampler (Print / Sign)

LAB USE ONLY

WORK ORDER #: WQ2870

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	VOC	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	Filt. Y N
✓	BN-17-S9-LT901	9/20/00/1525	W	3	X												
✓	BN-17-S9-LTXD1	9/20/00/—	W	3	X												
✓	BN-17-S9-SW010 MS/MSD	9/20/00/1515	W	3	X												
	~~BN-17-S9-GS001W~~	/	~~W~~ Bt														
	~~BN-17-S9-GS002S~~	/	~~W~~ Bt														
	BN-17-S9-QT05	8-31-00 1411 / 9-20-00 1500	W	3	X												
		/															
		/															
		/															
		/															
		/															
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		/															
		/															
		/															
		/															

COMMENTS: Begins + Ends SOG BN17S9LT901

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	9/21 1605			9/21/00 16:58	
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 #: ( ) 798-5977
Fax #: ( ) 798
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Suzanne Chase Suzanne Chase
Copies To:

LAB USE ONLY
WORK ORDER #: WO-2883
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)	HCL Metals (Filt. ☐Y ☒N)	Pesticides (Filt. ☐Y ☒N)	TOC (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-17-S1-QD001	9-22 / 900	W	7	✓	✓	✓	✓						
	BN-17-S1-QS003	9-22 / 920	W	7	✓	✓	✓	✓						
	BN-17-S1-QS004S	9-22 / 910	W	3	✓									
	~~BN-17-S1-QT06~~	~~9/22/0900~~												
	BN-17-S1-QT07	/												
		/												
		/												
		/												
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		/												
		/												
		/												

COMMENTS: Include these Samples. ENCS SOG BN-17-S1-SP1

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	9/22 0930	Angela M Hatzinec			
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 #: (207) 798-4636
Address: 175 Middlesex Turnpike
City: Bedford
State: MA
Zip Code: 01730
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WQ2838
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-2-S2-LT201W	9/19/00/1410	W	4										
✓✓	BN-2-S2-LT202W	9-19-00/1345	W	11					MS	MSD				
✓	BN-2-S2-LT203W	9-19-00/1325	W	4										
	BN-2-S2-LT201W	9-19-00/ —	W	4										
	BN-2-S2-QS001W	9-19-00/1600	W	4										
	~~BN-2-S2-QS002S~~	/	~~W~~											
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: All samples included in SDG II BN-2-S2-LT201W.
Please Forward COC + Form 1s to Sue Chase

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	9/19/00 1600	[signature]	[signature]	9/19/00 17:00	[signature]
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:

Lab Number: WQ2870-4
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-SW010	AQ	9/20/00	9/21/00	9/26/00	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	J1	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	J0.9	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:

Lab Number: WQ2870-4
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-SW010	AQ	9/20/00	9/21/00	9/26/00	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	93	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	84	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	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:

Lab Number: WQ2870-3
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-QT05	AQ	8/31/00	9/21/00	9/27/00	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:

Lab Number: WQ2870-3
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-QT05	AQ	8/31/00	9/21/00	9/27/00	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	99	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2883-4
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QT07	AQ	9/22/00	9/22/00	9/27/00	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	B2	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

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2883-4
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QT07	AQ	9/22/00	9/22/00	9/27/00	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	99	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	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: BNAS

Lab Number: WQ2838-5
SDG: BN2S2LT201W
Report Date: 9/26/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/23/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-2-S2-QS001W	AQ	9/19/00	9/19/00	9/23/00	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: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID: BNAS

Lab Number: WQ2838-5
SDG: BN2S2LT201W
Report Date: 9/26/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/23/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-2-S2-QS001W	AQ	9/19/00	9/19/00	9/23/00	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	117	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	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:

Lab Number: WQ2883-1
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QD001	AQ	9/22/00	9/22/00	9/26/00	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	JB0.5	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: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2883-1
SDG: BN17S1SP1
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/26/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S1-QD001	AQ	9/22/00	9/22/00	9/26/00	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	105	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		
1,2-DICHLOROETHANE-D4	102	%	1.0		

Report Notes: B, J

Appendix D.3

Sediment Samples
Site 9

APPENDIX D.3

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Sediment Samples	
BN-17-S9-SD010	SED-010
BN-17-S9-SDX1	SED-010 – Duplicate
Equipment Rinsate Blank	
BN-17-S1-QS003	Rinse blank
Source Water Blank	
BN-17-S1-QD-001	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	Contact	Phone #	Fax #
EA	Sue Chase	( ) 798-5977	( ) 798-4636

Address: 175 Middlesex Turnpike | 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 #: WQ2872 -*

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 (Not at Metals none)	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-17-S9-SD010	9/20/00/1520	Sed	2	✓				MS/MSD					
	BN-17-S9-SDxD01	9/20/00/ —	Sed	1	✓									
		/												
		/												
		/												
		/												
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		/												
		/												
		/												

COMMENTS: Bigins & Ends SDG BN-17-S9-SD010
Please Forward Form 1s to Sue Chase

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	9/21 1604	[signature]	[signature]	9/21/00 16:58	[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 #: ( ) 798-5977
Fax #: ( ) 798-9006
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Suzanne Chase — Suzanne Chase
Copies To:

LAB USE ONLY
WORK ORDER #: WG2883
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)	HCL Metals (Filt. ☐Y ☒N)	Pesticides (Filt. ☐Y ☒N)	TOC (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-17-S1-QD001	9-22 / 900	W	7	✓	✓	✓	✓						
	BN-17-S1-QS003	9-22 / 920	W	7	✓	✓	✓	✓						
	BN-17-S1-QS004S	9-22 / 910	W	3	✓									
	~~BN-17-S1-QT06~~	~~9/22/02/0900~~												
	BN-17-S1-QT07	/												
		/												
		/												
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		/												

COMMENTS: Include these samples. ENCS SOG BN-17-S1-SP1

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	9/22 0730	Angela Hatunes			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-17-S9-SD010

Matrix: SOIL **SDG Name:** BN17S9SD010

Percent Solids: 73.0 **Lab Sample ID:** WQ2872-001

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	4550			P	1
7440-36-0	ANTIMONY	0.37	U	N	P	1
7440-38-2	ARSENIC	2.2			P	1
7440-39-3	BARIUM	18.2			P	1
7440-41-7	BERYLLIUM	0.40	B		P	1
7440-43-9	CADMIUM	0.33	U		P	1
7440-70-2	CALCIUM	878			P	1
7440-47-3	CHROMIUM	9.0			P	1
7440-48-4	COBALT	3.4	B		P	1
7440-50-8	COPPER	7.9			P	1
7439-89-6	IRON	5340			P	1
7439-92-1	LEAD	18.5			P	1
7439-95-4	MAGNESIUM	1420		N	P	1
7439-96-5	MANGANESE	76.8		N	P	1
7439-97-6	MERCURY	0.01	B		CV	1
7440-02-0	NICKEL	7.1			P	1
7440-09-7	POTASSIUM	733			P	1
7782-49-2	SELENIUM	0.30	U		P	1
7440-22-4	SILVER	0.34	U		P	1
7440-23-5	SODIUM	85.8			P	1
7440-28-0	THALLIUM	0.64	U		P	1
7440-62-2	VANADIUM	12.7			P	1
7440-66-6	ZINC	24.1		E	P	1

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** BN-17-S9-SDXD1

Matrix: SOIL **SDG Name:** BN17S9SD010

Percent Solids: 76.3 **Lab Sample ID:** WQ2872-002

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	3660			P	1
7440-36-0	ANTIMONY	0.38	U	N	P	1
7440-38-2	ARSENIC	0.99	B		P	1
7440-39-3	BARIUM	11.4			P	1
7440-41-7	BERYLLIUM	0.20	B		P	1
7440-43-9	CADMIUM	0.40	U		P	1
7440-70-2	CALCIUM	643			P	1
7440-47-3	CHROMIUM	6.2			P	1
7440-48-4	COBALT	2.7	B		P	1
7440-50-8	COPPER	5.5			P	1
7439-89-6	IRON	4310			P	1
7439-92-1	LEAD	12.3			P	1
7439-95-4	MAGNESIUM	1030		N	P	1
7439-96-5	MANGANESE	64.4		N	P	1
7439-97-6	MERCURY	0.01	U		CV	1
7440-02-0	NICKEL	5.2			P	1
7440-09-7	POTASSIUM	523			P	1
7782-49-2	SELENIUM	0.31	U		P	1
7440-22-4	SILVER	0.40	U		P	1
7440-23-5	SODIUM	71.9			P	1
7440-28-0	THALLIUM	0.66	U		P	1
7440-62-2	VANADIUM	11.0			P	1
7440-66-6	ZINC	17.8		E	P	1

Color Before: BROWN Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** BN-17-S1-QS003

Matrix: WATER | **SDG Name:** BN17S1SP1

Percent Solids: 0.00 | **Lab Sample ID:** WQ2883-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	17.73	U		P	1
7440-36-0	ANTIMONY	2.96	U		P	1
7440-38-2	ARSENIC	2.46	U		P	1
7440-39-3	BARIUM	0.23	U		P	1
7440-41-7	BERYLLIUM	0.22	B		P	1
7440-43-9	CADMIUM	0.28	U		P	1
7440-70-2	CALCIUM	12.4	B		P	1
7440-47-3	CHROMIUM	0.92	U		P	1
7440-48-4	COBALT	0.88	U		P	1
7440-50-8	COPPER	1.29	U		P	1
7439-89-6	IRON	11.79	U		P	1
7439-92-1	LEAD	1.86	U		P	1
7439-95-4	MAGNESIUM	10.57	U		P	1
7439-96-5	MANGANESE	0.16	U		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	1.29	U		P	1
7440-09-7	POTASSIUM	969	B		P	1
7782-49-2	SELENIUM	2.39	U		P	1
7440-22-4	SILVER	1.07	U		P	1
7440-23-5	SODIUM	44.3	B		P	1
7440-28-0	THALLIUM	5.12	U		P	1
7440-62-2	VANADIUM	0.83	U		P	1
7440-66-6	ZINC	1.40	U		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** BN-17-S1-QD001

Matrix: WATER | **SDG Name:** BN17S1SP1

Percent Solids: 0.00 | **Lab Sample ID:** WQ2883-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	17.73	U		P	1
7440-36-0	ANTIMONY	2.96	U		P	1
7440-38-2	ARSENIC	2.46	U		P	1
7440-39-3	BARIUM	0.29	B		P	1
7440-41-7	BERYLLIUM	0.32	B		P	1
7440-43-9	CADMIUM	0.28	U		P	1
7440-70-2	CALCIUM	9.71	U		P	1
7440-47-3	CHROMIUM	0.92	U		P	1
7440-48-4	COBALT	0.88	U		P	1
7440-50-8	COPPER	1.29	U		P	1
7439-89-6	IRON	13.1	B		P	1
7439-92-1	LEAD	1.86	U		P	1
7439-95-4	MAGNESIUM	10.57	U		P	1
7439-96-5	MANGANESE	0.21	B		P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	1.29	U		P	1
7440-09-7	POTASSIUM	1440			P	1
7782-49-2	SELENIUM	2.39	U		P	1
7440-22-4	SILVER	1.07	U		P	1
7440-23-5	SODIUM	1380			P	1
7440-28-0	THALLIUM	5.12	U		P	1
7440-62-2	VANADIUM	0.83	U		P	1
7440-66-6	ZINC	1.40	U		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

FORM I - IN

Appendix D.4

Leachate Station Seep Sample

APPENDIX D.4

SAMPLE KEY – SITE 9
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
LT-901 (Seep) Samples	
BN-17-S9-LT901	LT-901
BN-17-S9-LTXD1	LT-901 - Duplicate
Trip Blank	
BN-17-S9-QT05	Trip Blank
BN-17-S1-QT07	Trip Blank
Equipment Rinsate Blank	
BN-17-S2-QS001W	Rinsate Blank
Source Water Blank	
BN-17-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 #: (207) 798-5977
Fax #: (207) 798-4636
Address: 175 Middlesex Turnpike
City: Bed Ford
State: MA
Zip Code: 01730
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: WQ2870
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	Metals 5 SC	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-17-S9-LT901	9/20/00/1525	W	3	X											
✓	BN-17-S9-LTXD1	9/20/00/ —	W	3	X											
✓	BN-17-S9-SW010 MS/MSD	9/20/00/1515	W	3	X											
	~~BN-17-S9-GS001W~~	/	~~W~~	~~Bt~~												
	~~BN-17-S9-GS002S~~	/	~~W~~	~~Bt~~												
	BN-17-S9-QT05	~~9/20/00~~ 9/31-00 / ~~1500~~ 1411	W	3	X											
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS: Begins + Ends SOG BN17S9LT901

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	9/21 1605	[signature]	[signature]	9/21/00 16:58	[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 #: (207) 798-46

Address: 175 Middlesex Turnpike | City: Bedford | State: MA | Zip Code: 01730

Purchase Order #: | Proj. Name / No.: | Katahdin Quote #:

Bill (if different than above): | Address:

Sampler (Print / Sign): | Copies To:

LAB USE ONLY | WORK ORDER #: WQ2838

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)								
BN-2-S2-LT201W	9/18/00/1410	W	4										
BN-2-S2-LT202W	9-19-00/1345	W	11					MS	MSD				
BN-2-S2-LT203W	9-19-00/1325	W	4										
BN-2-S2-LT201W	9-19-00/ —	W	4										
BN-2-S2-QS001W	9-19-00/1600	W	4										
~~BN-2-S2-QS002S~~	/	~~W~~											
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												
	/												

COMMENTS All samples included in SDG II BN-2-S2-LT201W.

Please Forward COC + Form 1s to Sue Chase

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian Chadar	9/18/00 1600	Jason McKenney	Jason McKenney	9/19/00 1700	
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 #: ( ) 798-5977
Fax #: ( ) 798 4636
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Suzanne Chase Suzanne Chase
Copies To:

LAB USE ONLY
WORK ORDER #: WO-2883
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 HCL (Filt. ☐Y ☒N)	Metals (Filt. ☐Y ☒N)	Pesticides (Filt. ☐Y ☒N)	TOC (Filt. ☐Y ☒N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	BN-17-S1-QD001	9-22 / 900	W	7	✓	✓	✓	✓						
	BN-17-S1-QS003	9-22 / 920	W	7	✓	✓	✓	✓						
	BN-17-S1-QS004S	9-22 / 910	W	3	✓									
	~~BN-17-S1-QT06~~	~~9/20/0900~~												
	BN-17-S1-QT07	/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS Include these Samples. Ences SDG BN-17-S1-SP1

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	9/22 0730	Angela Hatnes			
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:

Lab Number: WQ2870-1
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-LT901	AQ	9/20/00	9/21/00	9/27/00	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:

Lab Number: WQ2870-1
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-LT901	AQ	9/20/00	9/21/00	9/27/00	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	128	%	1.0		
TOLUENE-D8	109	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ2870-2
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-LTXD1	AQ	9/20/00	9/21/00	9/27/00	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	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:

Lab Number: WQ2870-2
SDG: BN17S9LT901
Report Date: 9/29/00
PO No. : 29600.47
Project: LTMP EVENT 17
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/27/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-17-S9-LTXD1	AQ	9/20/00	9/21/00	9/27/00	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	129	%	1.0		
TOLUENE-D8	111	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		
1,2-DICHLOROETHANE-D4	124	%	1.0		

Report Notes: J