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NAS BRUNSWICK
5090.3a

Monitoring Event 11 – April 2000
Building 95
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

June 2000
296.0047.7616

EA Engineering, Science, and Technology

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30 June 2000

Mr. Michael Barry
U.S. Environmental Protection Agency
Region 1
JFK Federal Building
90 Canal Street
Boston, Massachusetts 02214

Ms. Claudia Sait
Maine Department of Environmental Protection
State House, Station 17
Augusta, Maine 04333-0017

RE: Reports for Monitoring Event 11, Building 95, and Monitoring Event 1, Site 2
Naval Air Station, Brunswick, Maine
Contract No. N62472-92-D-1296; Contract Task Order No. 0047
EA Project No. 29600.47

Dear Mr. Barry/Ms. Sait:

On behalf of the Department of the Navy, EA Engineering, Science, and Technology is pleased to submit the reports for monitoring and sampling conducted for Monitoring Event 11 at Building 95, and Monitoring Event 1 at Site 2. These reports are submitted to the U.S. Environmental Protection Agency (EPA) Region 1, the State of Maine Department of Environmental Protection (MEDEP), and the Restoration Advisory Board (RAB) members for your information and use.

If additional information is required, please contact Mr. Anthony Williams at (207) 921-2445, or Mr. Arthur Coccoli (610) 595-0724.

Sincerely,

Alexander C. Easterday

Alexander C. Easterday, P.G.
Project Manager

ACE/caw
Enclosures

cc: Distribution List:
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Mr. R. Bernier, Topsham (w/o enclosure)
Ms. S. Chase, EA (1 copy)
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Alexander C. Easterday, P.G.
CTO Manager

27 JUNE 2000
Date

Robert S. Pace
Program Manager

28 June 2000
Date

June 2000

QUALITY REVIEW STATEMENT

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

EA Project No.: 29600.47.7611

Description of Report/Deliverable:

Monitoring Event 11 – April 2000, Building 95, 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

30 June 2000

Douglas E. McClure, P.E., L.E.P.
Senior Engineer

(Date)

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3	Summary of water quality indicator parameters measured in ground-water samples collected on 17 April 2000 at Building 95.

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 Building 95, Naval Air Station (NAS), Brunswick, Maine. NAS Brunswick is located south of the Androscoggin River between Brunswick and Bath, Maine (Figure 1). Figure 2 provides the layout for the Building 95 site.

At the Building 95 site, the Navy is performing long-term monitoring, maintenance, and corrective measures as part of the long-term remedial actions required by the Action Memorandum dated April 1993 (ABB-ES 1993). A Long-Term Monitoring Plan (LTMP) was established pursuant to the Record of Decision (ABB-ES 1994). The LTMP document establishes the requirement for monitoring/sampling to be conducted on a quarterly basis. Due to the low reported detections of chemicals of concern at this site, the sampling frequency was to be reduced from quarterly to tri-annual. Tri-annual sampling was initiated in June 1996 following approval by the State of Maine Department of Environmental Protection and U.S. Environmental Protection Agency (EPA) Region 1. Monitoring Event 9 (EA 1997) represented the initiation of tri-annual sampling. Beginning in 2000, the sampling frequency was modified to two rounds per year (April and September). The monitoring program will be reassessed based on the results of the two sampling events in 2000. Although sampling is planned for up to a 30-year period, periodic evaluations will provide a basis for continued sampling and proposing refinements/alterations to the monitoring program or remedial activity, if appropriate.

This report provides the results of the monitoring and sampling completed during Monitoring Event 11 (April 2000). Appendix A provides analytical data summary tables, Appendix B provides field monitoring and sampling forms, Appendix C provides an analytical data quality review, and Appendix D provides analytical report Form Is. Interpretations of long-term monitoring data trends and recommendations will be provided in the Annual Report for 2000.

1.2 MEASUREMENT OF WATER LEVEL ELEVATIONS

1.2.1 Gauging Activities

Water level measurements were obtained on 27 March 2000 at 6 ground-water monitoring wells located at the Building 95 site. The wells included in the gauging program are summarized in Table 1. The locations of the wells and the interpreted potentiometric surface contours are provided on Figure 2. Well gauging techniques are detailed in the final report for Monitoring Event 4 (EA 1996).

1.2.2 Results

Water level gauging data are summarized in Table 2. Figure 3 provides the interpreted direction of ground-water flow for the water elevation data collected on 27 March 2000.

1.3 GROUND-WATER MONITORING, SAMPLING, AND ANALYSIS

1.3.1 Sampling Activities

The ground-water sampling program was performed on 17 April 2000. Previously installed dedicated Grundfos Redi-Flo2 stainless steel and Teflon® submersible pumping systems were utilized for sample collection. Ground-water samples were collected from the 2 newly installed wells at Building 95 (MW-NASB-097 and MW-NASB-098) using the low flow sampling technique, which is detailed in the final report for Monitoring Event 4 (EA 1996).

Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity, were monitored to ensure stabilization of water quality prior to sample collection (Table 3). Stabilization of water quality indicator parameters was achieved when measurements agreed to within 10 percent on three successive readings. Although not required by the LTMP, oxidation-reduction potential was recorded for informational purposes. The monitoring wells reached equilibrium of the water quality indicator parameters prior to sampling. The Field Record of Well Gauging, Purging, and Sampling forms completed during the sampling event are provided in Appendix B.

Ground-water samples were collected for analysis of the following: Target Compound List (TCL) volatile organic compounds by EPA Method 8260B; TCL semivolatile organic compounds by EPA Method 8270C; DDT and lindane by EPA Method 8081A; diazon, malathion, and simazine by EPA Method 8141A; 2,4,5-T and 2,4-D by EPA Method 8151A; baygon and sevin by EPA Method 632; cyanide by EPA Method 335.4; and Target Analyte List metals by trace inductively coupled plasma by EPA Method 6010 and cold vapor atomic adsorption (mercury only) by EPA Method 7470.

1.3.2 Results

Appendix Tables A-1 through A-4 provide a summary of analytical results for ground-water samples collected at the Building 95 site on 17 April 2000. Appendix D contains the Form I summary tables for the analyses completed. Figure 2 provides the location of the monitoring wells.

Notable results of ground-water sampling during Monitoring Event 11 include:

- No volatile organic compounds or semivolatile organic compounds were detected in the ground-water samples.

- Two pesticides, alpha-chlordane and heptachlor epoxide, were detected in the ground-water sample collected from MW-NASB-097. The detected concentration of heptachlor epoxide at 0.07 µg/L exceeded the Maximum Exposure Guideline (0.04 µg/L). Due to laboratory error, the full pesticide analyte list was run by the laboratory, and heptachlor epoxide was detected; however, this compound is not included in the LTMP.

- Aluminum, iron, manganese, and thallium were detected at concentrations in excess of Federal Maximum Contaminant Levels at MW-NASB-098. In addition, manganese was also detected in excess of the Maximum Contaminant Level at MW-NASB-097.

1.4 VISUAL INSPECTION

Site inspection activities were completed on 11 April 2000 by a civil engineer in accordance with the final LTMP (EA 2000). The results of the site inspection activities indicated that a limited number of bushes and evergreens appeared visibly stressed. New shrubbery and grass coverage was present at the site. Inspection of the area confirmed no exposures of the geotextile cover at the ground surface. The 6 ground-water monitoring wells were found to be adequately labeled, capped, and locked. There was no indication of tampering at the site wells.

1.5 QUALITY ASSURANCE/QUALITY CONTROL

A rigorous quality assurance/quality control program is required by the final LTMP (EA 2000) to meet the data quality objectives of the ground-water sampling program, as outlined in the Quality Assurance Project Plan contained in the LTMP (EA 2000). The data obtained during the April 2000 sampling event were determined to be of sufficient quality to be used to evaluate ground-water quality at the Building 95 site. The results of the quality assurance/quality control data are summarized in Table A-5.

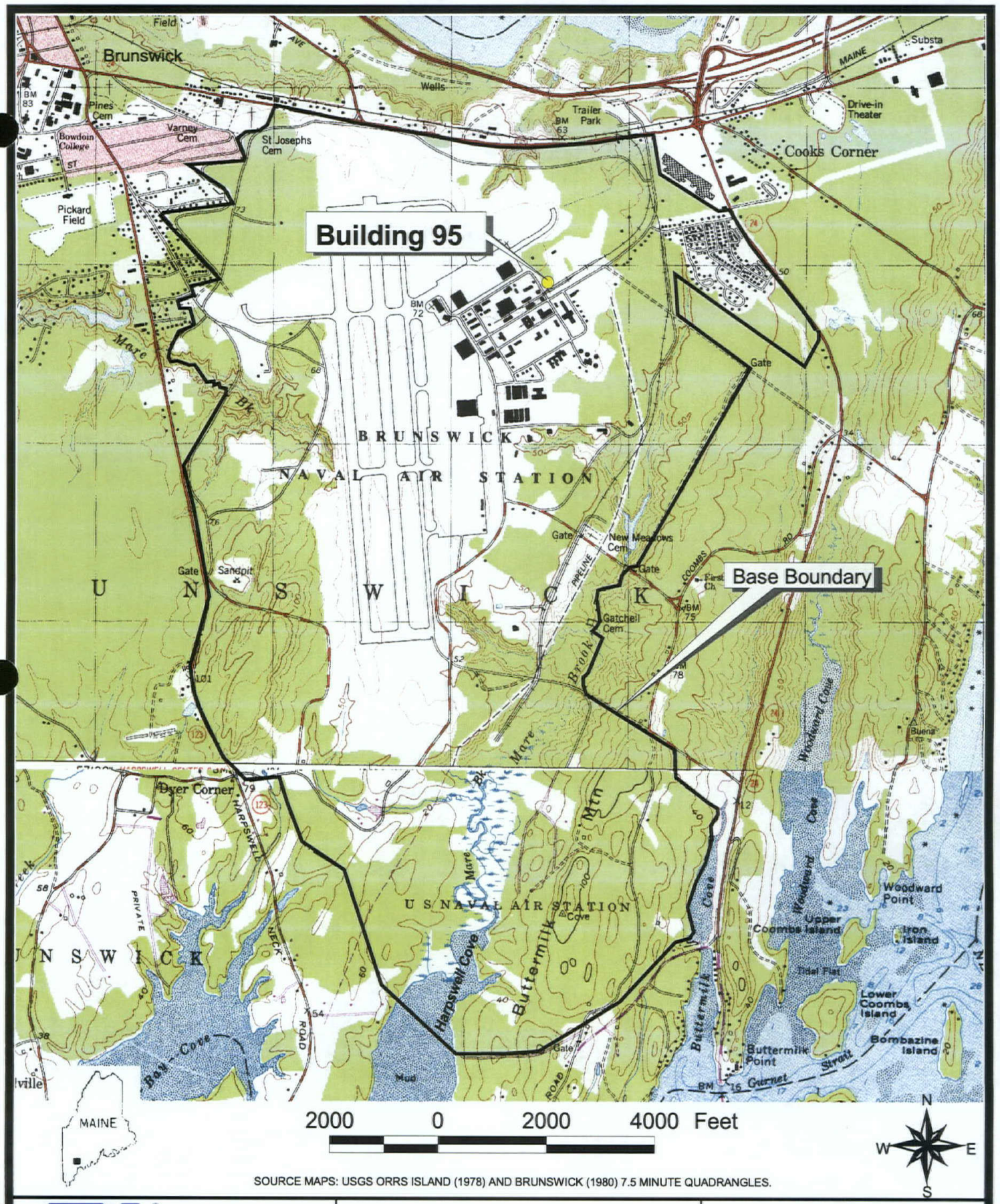
1.6 ANALYTICAL DATA QUALITY REVIEW

As required by the final LTMP (EA 2000), a review of laboratory data was performed on selected quality control parameters to evaluate precision, accuracy, completeness, comparability, and data quality objective requirements. A summary of the analytical data quality review is provided in Appendix C. Method detection limits for aqueous media are also included in Appendix D.

Notable findings of the analytical data quality review include:

- The positive result for methylene chloride in the trip blank (QT-001) should be considered false-positive due to method blank contamination.

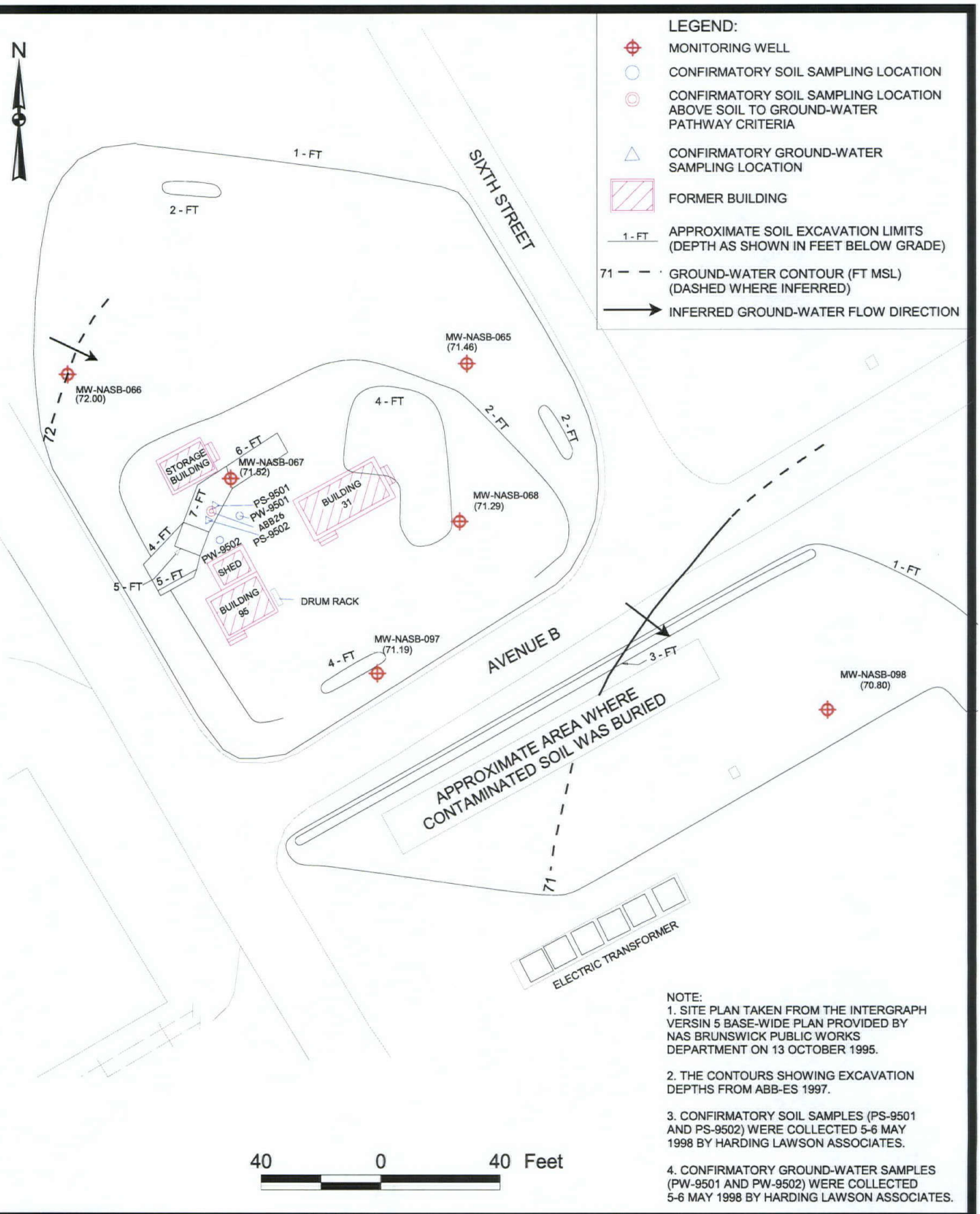
- The analytical results for aluminum should be considered an estimate of the true concentrations based on the exceedance of precision criteria for field duplicates.



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

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	NAVAL AIR STATION BRUNSWICK, MAINE	FIGURE 1 SITE LOCATION MAP, BUILDING 95

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
ACE	BT	BT	PLN	AS SHOWN	27 AUGUST 1999	29600.47	I:\NASB_GIS \NAVY.APR



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

2. THE CONTOURS SHOWING EXCAVATION DEPTHS FROM ABB-ES 1997.

3. CONFIRMATORY SOIL SAMPLES (PS-9501 AND PS-9502) WERE COLLECTED 5-6 MAY 1998 BY HARDING LAWSON ASSOCIATES.

4. CONFIRMATORY GROUND-WATER SAMPLES (PW-9501 AND PW-9502) WERE COLLECTED 5-6 MAY 1998 BY HARDING LAWSON ASSOCIATES.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY	NAVAL AIR STATION BRUNSWICK, MAINE	FIGURE 2 SITE PLAN BUILDING 95

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT No	FILE No
ACE	BT	BT	SC	AS SHOWN	29 JUNE 2000	29600.47	I:\NASB_GIS \NAVY.APR

TABLE 1 SUMMARY OF THE LONG-TERM MONITORING PROGRAM AT BUILDING 95

Well Designation	Sample Parameters												
	Sampling Frequency	Volatile Organic Compounds	Semivolatile Organic Compounds	2,4,5-T and 2,4-D	Diazinon, Malathion, and Simazine	Rotenone	Target Analyte List Metals	Avitrol and Maleic Hydrazide[a]	Baygon and Sevin	Cyanide	DDT and Lindane	Bi-Annual Gauging	Field Parameters[b]
MW-NASB-065	Bi-Annual	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	X	NR
MW-NASB-066	Bi-Annual	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	X	NR
MW-NASB-067[c]	Bi-Annual	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	X	NR
MW-NASB-068	Bi-Annual	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	X	NR
MW-NASB-097	Bi-Annual	X	X	X	X	X[d]	X	X[d]	X	X	X	X	X
MW-NASB-098	Bi-Annual	X	X	X	X	X[d]	X	X[d]	X	X	X	X	X

(a) A laboratory has been identified that can analyze for avitrol and maleic hydrazide, although no method has been agreed upon for these analytes.
(b) 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.
(c) If any compound is detected in either well sampled during April or September 2000, MW-NASB-067 will be added to the sampling program for the detected compounds.
(d) Potential additional analyte. After a review of the data collected during the April and September 2000 sampling events has been completed, it will be determined if it is necessary to add these analytes to the sampling program.

NOTE: NR = Not required.

TABLE 2 MONITORING WELL GAUGING SUMMARY, BUILDING 95
27 MARCH 2000

Well Designation	Well Riser Elevation (ft MSL)	Depth to Well Bottom (ft below top of PVC well riser)	Monitoring Event 11 Gauging Data (27 March 2000)	
			Depth to Water (ft below top of PVC well riser)	Water Table Elevation (ft MSL)
MW-NASB-065	74.29	15.50	2.83	71.46
MW-NASB-066	78.79	19.79	6.79	72.00
MW-NASB-067	74.30	15.00	2.78	71.52
MW-NASB-068	74.86	15.05	3.57	71.29
MW-NASB-097	73.41	11.50	2.22	71.19
MW-NASB-098	76.53	15.92	5.73	70.80

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride.

TABLE 3 SUMMARY OF WATER QUALITY INDICATOR PARAMETERS MEASURED IN GROUND-WATER SAMPLES COLLECTED ON 17 APRIL 2000 AT BUILDING 95

Well Designation	pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Eh (mV)
MW-NASB-097	5.71	8.56	96	0.94	4	132
MW-NASB-098	5.07	9.34	126	0.45	5	70

NOTE: NTU = Nephelometric turbidity unit.

REFERENCES

ABB-ES Environmental Services, Inc. (ABB-ES). 1993. Action Memorandum, Building 95. April.

ABB-ES. 1994. Long-Term Monitoring Plan. Building 95, Sites 1 and 3, and Eastern Plume. Naval Air Station, Brunswick, Maine. August.

EA Engineering, Science, and Technology. 1996. Final Report, Quarterly Monitoring Event 4 - November 1995, Building 95, Naval Air Station, Brunswick, Maine. February.

EA. 1997. Final Monitoring Event 9 – August 1997, Building 95, Naval Air Station, Brunswick, Maine. November.

EA. 2000. Final Long-Term Monitoring Plan, Building 95, Naval Air Station, Brunswick, Maine. May.

Appendix A

Laboratory Analytical Data Summary Tables

TABLE A-1 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM BUILDING 95 ON 17 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			MW-NASB-097	MW-NASB-098	MW-NASB-098 (Dup)
			Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**			
Total VOC	---	---	---	---	---
1,1,1-Trichloroethane	200	200	(<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).
Only those analytes detected in at least one of the samples, and chemicals of concern listed in the Final Long-Term Monitoring Plan (EA 1999b), are shown on this table.

TABLE A-2 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM BUILDING 95 ON 17 APRIL 2000
TARGET ANALYTE LIST ELEMENTS BY U.S. ENVIRONMENTAL PROTECTION AGENCY 6000/7000 SERIES METHODS

			MW-NASB-097	MW-NASB-098	MW-NASB-098 (Dup)
			Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**			
Aluminum	1,430	200	117	**488**	**212**
Barium	1,500	2,000	33.1	23.5	21.8
Calcium	---	---	15,500	8,300	8,820
Chromium	100	100	(<0.74U)	2.7B*	1.2B*
Cobalt	---	---	1.2B*	1.1B*	1B*
Copper	---	1,300	2.6B*	2.3B*	(<1.52U)
Iron	---	300	91.7	**4,100**	**4,530**
Magnesium	---	---	1,860	1,500	1,370
Manganese	200	50	**214**	**164**	**177**
Nickel	100	100	1.6B*	3.1B*	2.2B*
Potassium	---	---	2,330	1,640	1,870
Silver	50	100	(<1.04U)	1.1B*	(<1.04U)
Sodium	---	---	6,810	8,040	8,710
Thallium	0.4	2	(<3.28U)	**3.4B***	(<3.28U)
Vanadium	---	---	(<0.94U)	1.3B*	1.9B*
Zinc	---	5,000	4.2B*	3.7B*	4B*

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

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

TABLE A-3 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM BUILDING 95 ON 17 APRIL 2000
SEMIVOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8270C

			MW-NASB-097	MW-NASB-098	MW-NASB-098 (Dup)
			Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**			
NONE DETECTED					

TABLE A-4 SUMMARY OF GROUND-WATER SAMPLES COLLECTED FROM BUILDING 95 ON 17 APRIL 2000
PESTICIDES BY U.S. ENVIRONMENTAL PROTECTION AGENCY 8000 SERIES METHODS

			MW-NASB-097	MW-NASB-098	MW-NASB-098 (Dup)
			Ground Water	Ground Water	Ground Water
			Low-flow Sample	Low-flow Sample	Low-flow Sample
Compound/Element	**MEG**	**MCL**			
2,4,5-T	70	---	(<0.5U)	(<0.5U)	(<0.5U)
2,4-D	---	70	(<1U)	(<1U)	(<1U)
4,4'-DDD	---	---	(<0.1U)	(<0.1U)	(<0.1U)
4,4'-DDE	---	---	(<0.1U)	(<0.1U)	(<0.1U)
4,4'-DDT	0.83	---	(<0.1U)	(<0.1U)	(<0.1U)
Aldrin	---	---	(<0.05U)	(<0.05U)	(<0.05U)
alpha-BHC	---	---	(<0.05U)	(<0.05U)	(<0.05U)
alpha-Chlordane	0.27	---	0.09C	(<0.05U)	(<0.05U)
beta-BHC	---	---	(<0.05U)	(<0.05U)	(<0.05U)
Carbaryl (Sevin)	---	---	(<40U)	(<40U)	(<40U)
delta-BHC	---	---	(<0.05U)	(<0.05U)	(<0.05U)
Diazinon	0.63	---	(<0.5U)	(<0.5U)	(<0.5U)
Dieldrin	0.02	---	(<0.1U)	(<0.1U)	(<0.1U)
Endosulfan I	---	---	(<0.05U)	(<0.05U)	(<0.05U)
Endosulfan II	---	---	(<0.1U)	(<0.1U)	(<0.1U)
Endosulfan Sulfate	---	---	(<0.1U)	(<0.1U)	(<0.1U)
Endrin	2	2	(<0.1U)	(<0.1U)	(<0.1U)
Endrin Aldehyde	---	---	(<0.1U)	(<0.1U)	(<0.1U)
Endrin Ketone	---	---	(<0.1U)	(<0.1U)	(<0.1U)
gamma-BHC (Lindane)	---	---	(<0.05U)	(<0.05U)	(<0.05U)
Gamma-chlordane	---	---	(<0.05U)	(<0.05U)	(<0.05U)
Heptachlor	0.08	4	(<0.05U)	(<0.05U)	(<0.05U)
Heptachlor Epoxide	0.04	2	**0.07C**	(<0.05U)	(<0.05U)
Malathion	40	---	(<0.5U)	(<0.5U)	(<0.5U)
Methoxychlor	100	40	(<0.5U)	(<0.5U)	(<0.5U)
Propoxur (Baygon)	---	---	(<3U)	(<3U)	(<3U)
Simazine	4	4	(<0.5U)	(<0.5U)	(<0.5U)
Toxaphene	0.3	3	(<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).
C = Sample result confirmed on a second column.
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-5 SUMMARY OF QUALITY CONTROL SAMPLES COLLECTED FROM BUILDING 95 ON 17 APRIL 2000
VOLATILE ORGANIC COMPOUNDS BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 8260B

			QT-004
			Trip Blank
			QC Sample
Compound/Element	**MEG**	**MCL**	
Total VOC	---	---	---
Methylene Chloride	---	---	0.7JB

(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.

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

Appendix B.1

Field Record of Well Gauging Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

FIELD RECORD OF WELL GAUGING

Project Name: LTMP Event 11 B1d95	Project No: 29600.47	Date: 3/27
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)	PVC Casing Elevation (ft)	Depth to Water (ft)	Measured Well Depth (ft)	Water Table Elevation (ft)
MW-DASB 65	Y Y	Y	0	0	Good		74.29	2.83	15.50	71.46
66	Y Y	Y	0	0	Good		78.79	6.79	19.79	72.00
67	Y Y	Y	0	0	Good		74.30	2.78	15.00	71.52
68	Y Y	Y	0	0	Good		74.86	3.57	15.05	71.29
230	Y Y		0	0	Good		73.41	2.22		
231	Y Y	Y	0	0	Good		76.53	5.73		

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

f:\wp\29600\47

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: 95
WELL I.D.: MW-NASB-97
WELL CONDITION: good

PROJECT NUMBER: 29600477516
WELL LOCK STATUS: No lock
WEATHER: cold, breezy, high cloud

GAUGE DATE: 4/17/00
SOUNDING METHOD: water level indicator
STICK UP/DOWN (ft): 0.4

GAUGE TIME: 0915
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 4/17/00
PURGE METHOD: Low flow
AMBIENT AIR VOCs (ppm) Start: Ø End: Ø

PURGE TIME: 0958
FIELD PERSONNEL: BA, SC
WELL MOUTH VOCs (ppm): Start: Ø End: Ø

WELL VOLUME

A. WELL DEPTH (ft): 11.50
B. DEPTH TO WATER (ft): 2.49
C. LIQUID DEPTH (ft) (A-B): 9.01
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): 5.45
F. THREE WELL VOLUMES (L) (E*3): 16.35

Parameter	Beginning	1	2	3	4	5	6
Time (min)	1000	1005	1010	1015	1020	1023	1026
Depth to Water (ft)	2.67	2.68	2.68	2.68	2.68	2.68	2.68
Purge Rate (L/min)	1.2*	1.2	1.2	1.2	1.2	1.2	1.2
Volume Purged (L)	2.4	8.4	14.4	20.4	26.4	30.0	33.6
pH	5.57	5.65	5.71	5.74	5.74	5.71	5.71
Temperature (°C)	8.33	8.48	8.56	8.56	8.54	8.54	8.56
Conductivity (μmhos/cm)	102	94	95	98	97	95	96
Dissolved Oxygen (mg/L)	2.44	1.47	1.36	1.34	1.32 0.96	0.95	0.94
Turbidity (NTU)	64	51	19	12	7	4	4
Eh (mv)	142	138	135	134	132	132	132

TOTAL QUANTITY OF WATER REMOVED (L): 76

SAMPLERS: BA, SC
SAMPLING TIME (START/END): 0930
SAMPLING DATE: 4/17/00
DECONTAMINATION FLUIDS USED: DI
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCL, HNO_3, ~~H_2SO_4~~ NaOH
SAMPLE BOTTLE IDs: ~~MW~~ BN-11-95-MW97
SAMPLE PARAMETERS: ~~MW-NASB-097~~ ~~MS/MSD Done~~ VOC, SVOC, Pest, metals, Cyanide, other pesticides

COMMENTS AND OBSERVATIONS: * unable to lower flow - setting of grundfos converter @ 47 Hz
VOAs - 9, metals - 2 (need label), cyanide 2 (need whole) 245T 24D - 6, pest - 6,

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: B1295
WELL I.D.: MW-NASB 98
WELL CONDITION: good

PROJECT NUMBER: 2960047
WELL LOCK STATUS: locked
WEATHER:

GAUGE DATE: 4/17
SOUNDING METHOD: 5 Lape indicator
STICK UP/DOWN (ft): 3.2

GAUGE TIME: 900
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 4/17
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 905
FIELD PERSONNEL: SC BA
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 15.92
B. DEPTH TO WATER (ft): 6.03
C. LIQUID DEPTH (ft) (A-B): 9.89
D. WELL VOLUME/FT (L): 0.605
E. WELL VOLUME (L) (C*D): ~~0.6~~ 6
F. THREE WELL VOLUMES (L) (E*3): 18

Parameter	Beginning	1	2	3	4	5
Time (min)	910	9.15	920	925	930	935
Depth to Water (ft)	6.50	6.52	6.53	6.54	6.54	6.55
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	4	5	6
pH	4.23	4.80	4.96	5.00	5.03	5.07
Temperature (°C)	9.32	9.23	9.32	9.32	9.33	9.34
Conductivity (μmhos/cm)	105	95	125	128	128	126
Dissolved Oxygen (mg/L)	0.62	0.70	0.48	0.45	0.44	0.45
Turbidity (NTU)	73	50	16	7	6	5
Eh (mv)	125	90	77	73	71	70

TOTAL QUANTITY OF WATER REMOVED (L): 7.5

SAMPLERS: SC, BA
SAMPLING TIME (START/END): 940
SAMPLING DATE: 4/17/00
DECONTAMINATION FLUIDS USED: none
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL, HNO_3, NaOH
SAMPLE BOTTLE IDs: BN-16-95-MW98 BN-16-95-
SAMPLE PARAMETERS: VOC, SVOC, Metals, pesticides, baygon, Sevin, Malathion, Simazine, 245-T, 2,4-D, diazinon
COMMENTS AND OBSERVATIONS: Water that came out initially was orange.
Containerized and ran through plant

Appendix C

Analytical Data Quality Review

C.1 Method Detection Limits for Sediment and Aqueous Samples

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APPENDIX C

ANALYTICAL DATA QUALITY REVIEW

C.1 INTRODUCTION

This project utilized both field and analytical laboratory quality control measures to ensure that the data quality objectives presented in the project-specific Quality Assurance Project Plan (QAPP) (EA 2000)[1] were met.

The sampling program consisted of 4 aqueous samples collected from the Building 95 site, which were provided to the laboratory as one sample delivery group. Samples included 2 monitoring wells, 1 field duplicate, and 1 trip blank. Field quality control samples (field duplicate and trip blank) were collected at the frequency required by the QAPP. Equipment rinsate blanks were not required due to the use of dedicated pumping systems.

Analytical quality control was reviewed for compliance against the 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 as presented in the QAPP. 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 recoveries of the LCS. 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 and recoveries are used to measure potential bias due to matrix effects. SMC, which are structurally similar to the targeted analytes, are used to evaluate the recovery of the target compounds. These are then used as indicators for all of the analytes. The accuracy of the LCS spike recoveries is used in conjunction with MS/MSD when evaluating organic analyses.

Field completeness was quantified by reviewing the scheduled number of samples to the number of samples actually collected. Data completeness was quantified by reviewing the number of usable results to the number of analyses scheduled for analysis.

1. EA Engineering, Science, and Technology. 2000. Final Long-Term Monitoring Plan, Building 95, Naval Air Station, Brunswick, Maine. May.

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

- **Instrument Detection Limit**—Defined as the lowest concentration that can be determined to be statistically different from instrument background noise (also known as an instrument blank).

- **Method Detection Limit**—The minimum concentration 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 aqueous media are summarized in Table C-1.

- **Contract Required Detection Limit/Contract Required Quantitation Limit (CRDL/CRQL)**—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 instrument detection limits 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 concentration that can be reasonably achieved within specified units of precision and accuracy during routine laboratory operating conditions.

Below is a summary table of the findings for the data quality review performed and discussed in detail in this appendix:

Data Quality Review		Holding Time	Field/Method Blank Contamination	Precision		Accuracy			Completeness	
				Laboratory	Field	SMC	MS/MSD	LCS	Analytical	Field
Aqueous Matrix	VOC	✔	✔	✔	✔	✔	✔	✔	100% ✔	100% ✔
	Special Analyses[a]	✔	✔	✔	✔	✔	✔	✔		
	Metals	✔	✔	✔	✔J	NA	✔	✔		
	Pesticides	✔	✔	✔	✔	✔	✔	✔		
	SVOC	✔	✔	✔	✔	✔	✔	✔		

(a) Special analyses include Propoxur, Carbaryl, 2,4-D, 2,4,5-T, Diazinon, Malathion, and Simazine.

NOTE: VOC = Volatile organic compounds.
SVOC = Semivolatile organic compounds.
✔ = The data are usable as reported based on the data quality review of this quality measurement.
✔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.

All semivolatile organic compounds (SVOCs), propoxur, carbaryl, 2,4-D, 2,4,5-T, diazinon, malathion, simazine, and metals data are usable as reported based on the quality review for precision and accuracy provided in detail below.

Minor sample biases are identified and a detailed description of field/laboratory blank contamination (Section C.6) and precision issues (Section C.7) are provided below.

The following sections provide a detailed discussion of each of the above quality measurements.

C.1.1 Field Sampling Program Quality Control

A field duplicate sample was collected and analyzed for the same parameters as the environmental samples to determine field sampling precision. The potential for cross-contamination of volatile organics during sample storage and shipment was monitored by the trip blank, which was shipped in the sample cooler containing aqueous samples. The trip blank was analyzed for volatile organic compounds (VOCs) by EPA SW-846, Method 8260. An equipment rinsate blank was not required due to the use of dedicated pumping systems.

C.1.2 Laboratory Analytical Quality Control Program

Aqueous samples collected from the monitoring wells were analyzed for Target Compound List VOCs by EPA SW-846, Method 8260; Target Compound List SVOCs by EPA SW-846, Method 8270; Target Compound List pesticides by EPA SW-846, Method 8080; Target Analyte List metals and mercury by EPA SW-846, Methods 6010, 7060, 7421, 7841, 7740, and 7470; propoxur and carbaryl by Method 632; 2,4-D and 2,4,5-T by EPA SW-846, Method 8151A; and simazine, diazinon, and malathion by EPA SW-846, Method 8141A. The quality control measures specified in the EPA SW-846 methodology (MS/MSD, SMC, LCS, and laboratory duplicates), as well as those in the QAPP, were performed at the proper frequency by the laboratory and established proper analytical quality control. The range of results for the accuracy and precision data quality objectives is discussed in the subsections below.

C.2 SAMPLE HOLDING TIMES

Holding times (defined as the time from sample collection to the time of sample preparation/ analysis) were compared against the maximum holding times identified in the quality control requirements of the referenced analytical methods. The holding times were met for all parameters; data are usable as reported.

C.3 PRECISION

C.3.1 Volatile Organic Compounds

Five VOCs were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were the same as those reported by the laboratory. The sample identified for MS/MSD was sample MW-NASB-097.

The monitoring well MS/MSD RPDs for VOCs were within the established control limits, therefore, analytical precision was determined to be acceptable and the data are usable as reported based on the analytical precision review.

C.3.2 Semivolatile Organic Compounds

The analytical precision was determined to be acceptable and the SVOC data are usable as reported based on the review of laboratory precision. Eleven SVOCs were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were the same as those reported by the laboratory. The sample identified for MS/MSD was sample MW-NASB-097.

Monitoring well MS/MSD RPDs for sample MW-NASB-097 SVOC were within the established control limits with the exception of 2-nitroaniline (32 percent), 2-chlorophenol (40 percent), phenol (50 percent), and butylbenzylphthalate (35 percent). Laboratory prepared spikes (performed in both method blanks and LCS) had acceptable RPDs. The RPDs for 2-nitroaniline, 2-chlorophenol, phenol, and butylbenzylphthalate in the sample mentioned above did not indicate significant imprecision, therefore, the data are usable as reported.

C.3.3 Target Analyte List Metals

All 23 analytes were used to quantify the laboratory duplicate RPD. There were no control limits identified in the QAPP for the duplicate RPD for Target Analyte List metals, therefore, the laboratory control limits were used. The aqueous laboratory duplicate RPD for Target Analyte List metals were within the laboratory control limits, and the data were usable as reported based on the analytical precision measurement review.

C.3.4 Pesticide Compounds

Six compounds were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were the same as those reported by the laboratory. The MS/MSD was performed on sample MW-NASB-097.

Monitoring well MS/MSD RPDs for pesticide compounds were within the established control limits and data are usable as reported based on the quality review of the analytical precision measurement review.

C.3.5 Propoxur, Carbaryl, Simazine, Diazinon, Malathion, 2,4-D, and 2,4,5-T

Seven compounds were used to quantify the MS/MSD RPD. The control limits identified in the QAPP were the same as those reported by the laboratory. The MS/MSD was performed on sample MW-NASB-097.

The monitoring well MS/MSD RPD for propoxur, carbaryl, 2,4-D, 2,4,5-T, diazinon, simazine, and malathion compounds were within the established control limits and data are usable as reported based on the quality review of the analytical precision measurements.

C.4 ACCURACY

C.4.1 Volatile Organic Compounds

Four SMC were used to measure the ability of the laboratory to purge the target compounds from the environmental samples. The control limits identified in the QAPP and reported by the laboratory were the same for the four SMC. The monitoring well samples SMC recoveries were within the established control limits, therefore, the results are usable as reported based on the review of the SMC accuracy.

Five VOCs were used to quantify MS/MSD recoveries against laboratory established control limits. The recovery limits identified by the laboratory were the same as those listed in the QAPP. The MS/MSD recoveries were within the established accuracy control limits with the exception of bromoform (142 percent), acetone (59 percent), *trans*-1,3-dichloropropene (144 percent), and total 1,2-dichloroethene (144 percent). These results suggest a slight high bias for bromoform, *trans*-1,3-dichloropropene, and total 1,2-dichloroethene and a slight low bias for acetone in sample MW-NASB-097; however, since the compounds were not detected in the monitoring well samples, the data are usable as reported. The data user should note that the positive result for acetone in the trip blank (QT-001) is considered false-positive due to method blank contamination (see Section C.6 for more details). The data are usable as reported based on the review of MS/MSD accuracy.

Five VOCs were used to quantify LCS recoveries against laboratory established control limits (Appendix D). No LCS recovery limits are stated in the QAPP. The LCS recoveries were within laboratory established accuracy control limits, with the exception of bromomethane (160 percent) and *trans*-1,2-dichloroethene (140 percent). These results suggest a slight high bias for bromomethane and *trans*-1,2-dichloroethene in the samples; however, since the compounds were not detected in the monitoring well samples, the data are usable as reported. The data are usable as reported based on the review of LCS accuracy.

C.4.2 Semivolatile Organic Compounds

Six SMCs were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The monitoring well sample SMC recoveries were within the

established control limits, therefore, the results are usable as reported based on the review of the SMC accuracy.

Eleven compounds were used to quantify the MS/MSD recoveries. The control limits stated in the QAPP were the same as those reported by the laboratory. The MS/MSD recoveries for sample MW-NASB-097 were within the established control limits, with the exception of 3,3'-dichlorobenzidine (49 and 38 percent), 3-nitroaniline (58 percent), 4,6-dinitro-2-methylphenol (26 and 24 percent), 2-nitroaniline (52 percent), 2-chloroaniline (50 and 44 percent), 2-methylphenol (55 percent), 4-nitrophenol (9.2 and 7.9 percent), 2,4-dimethylphenol (57 percent), 2,4,5-trichlorophenol (58 percent), 2-nitrophenol (53 percent), 2,4-dichlorophenol (56 and 58 percent), 2,4-dinitrotoluene (51 percent), 2-chlorophenol (46 percent), 2,4,6-trichlorophenol (47 and 46 percent), hexachlorocyclopentadiene (55 and 55 percent), hexachlorocyclopentadiene (36 and 44 percent), pentachlorophenol (40 and 38 percent), phenol (30 and 18 percent), butylbenzylphthalate (36 and 25 percent), di-n-butylphthalate (57 and 46 percent), di-n-octylphthalate (38 and 31 percent), and bis(2-ethylhexyl)phthalate (38 and 30 percent) which were reported below the lower control limit. These results suggest a low bias for these compounds in sample MW-NASB-097; however, since the compounds were not detected in the monitoring well samples, the data are usable as reported.

Eleven SVOCs were used to quantify the LCS recoveries against laboratory established control limits. No LCS recovery limits are stated in the QAPP. LCS recoveries were compliant with the exception of 2,2'-oxybis(1-chloropropane) (48 percent), 2,4-dichlorophenol (2.4 percent), 2-chlorophenol (3.6 percent), 2-methylphenol (41 percent), 2-nitrophenol (1.9 percent), 4-chloro-3-methylphenol (31 percent), 4-methylphenol (34 percent), hexachlorocyclopentadiene (64 percent), and phenol (4.5 percent). These results suggest a low bias for these compounds in sample MW-NASB-097; however, since these compounds were not detected in the monitoring well samples, the data are usable as reported.

C.4.3 Target Analyte List Metals

All 23 analytes were used to quantify MS recoveries for the samples. The MS was performed on sample MW-NASB-097. MS recoveries were within the established control limits and data are usable as reported based on the quality review of the analytical precision measurements.

All 23 analytes were used to quantify LCS recoveries against QAPP established control limits. The LCS recoveries were within QAPP established control limits, indicating the laboratory's ability to perform sample digestion/distillation. The sample results are usable as reported based on the review of the LCS accuracy.

C.4.4 Pesticide Compounds

Two SMC were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The control limits identified in the QAPP and reported by the laboratory were the same for the two SMC.

The SMC recoveries were within the control limits with the exception of 2,4,5,6-tetrachloro-meta-xylene (95 percent). This result suggests a slight high bias for this compound in sample MW-NASB-097; however, since this compound was not detected in the monitoring well samples, the data are usable as reported.

Six compounds were used to quantify the MS/MSD recoveries. The MS/MSD recovery limits stated in the QAPP were the same as those reported by the laboratory. The MS/MSD recoveries were within the established control limits with the exception of endosulfan sulfate (142 percent). This result suggests a slightly high bias for this compound in sample MW-NASB-097; however, since this compound was not detected in the monitoring well samples, the data are usable as reported.

Six pesticide compounds were used to quantify the LCS recoveries against laboratory established control limits. There were no LCS recovery limits identified in the QAPP. The monitoring well aqueous LCS recoveries were within laboratory established control limits, confirming the laboratory's ability to perform sample extraction. The data are usable as reported based on the review of the LCS accuracy data.

C.4.5 Propoxur, Carbaryl, Simazine, Diazinon, Malathion, 2,4-D, and 2,4,5-T

Seven SMCs were used to measure the ability of the laboratory to extract the target compounds from the environmental samples. The surrogate recoveries stated in the QAPP were the same as those reported by the laboratory. The SMC recoveries were within the control limits for all samples, therefore, the data are usable as reported based on the review of SMC accuracy.

Seven compounds were used to quantify the MS/MSD recoveries. The MS/MSD recovery limits stated in the QAPP were the same as those reported by the laboratory. The MS/MSD recoveries were within the control limits with the exception of simazine (30.2 and 18.2 percent). These results suggest a low bias for this compound in sample MW-NASB-097; however, since this compound was not detected in the monitoring well samples, the data are usable as reported.

Seven compounds were used to quantify LCS recoveries against laboratory established control limits. The LCS recoveries were identified by the QAPP. The LCS had recoveries within LCS established control limits with the exception 2,4-D (102 and 105 percent). These results suggest a slight high bias for this compound in sample MW-NASB-097; however, since this compound was not detected in the monitoring well samples, the data are usable as reported.

C.5 COMPLETENESS

Analytes were reviewed for method and QAPP compliance and data were determined to be usable. The percent analytical completeness for field samples is 100. The planned field samples and the corresponding quality control samples (duplicate and trip blank) were collected, resulting in a percent field completeness of 100.

C.6 FIELD QUALITY CONTROL BLANKS

Trip blanks are indicators for cross-contamination of VOCs during sample shipment. In cases where contamination exists, environmental samples should be reviewed for possible false-positives. Equipment rinsate blanks were not required due to the use of dedicated pumping systems.

The field quality control blank collected for this site included 1 trip blank. The trip blank (QT-001) was reported free of contamination with the exception of methylene chloride (0.7JB µg/L). The positive result for methylene chloride in the trip blank (QT-001) should be considered false-positive due to method blank contamination.

C.7 DUPLICATE FIELD SAMPLES

Field duplicated samples were used to evaluate the overall precision of both the field and laboratory. 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 duplicate taken during the sampling event. The overall precision of organic compounds was evaluated by reviewing the RPD (non-detects were defined as one-half the reporting limit) and were considered acceptable when less than 30 percent. Inorganic overall precision was evaluated by reviewing the difference 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), and by the RPD for the analytes greater than 5 times the reporting limit. Non-detects were defined as one-half the reporting limit for inorganic difference measurements. The acceptable RPD for inorganic analyses is less than 30 percent, and the acceptable difference is less than the 2 reporting limit value.

The sample locations of the field duplicated samples were not identified to the laboratory. One duplicate sample was collected during monitoring well sampling. The precision measurements for analytes having concentrations reported above the reporting limit are shown below:

Analyte	Unit	MW-NASB-098	MW-NASB-098 DUP	RPD %	Difference
Aluminum	µg/L	488	212	NA	**276**
Barium	µg/L	23.5	21.8	NA	1.7
Calcium	µg/L	8,300	8,820	6.1	NR
Chromium	µg/L	2.7B*	1.2B*	NA	1.5
Cobalt	µg/L	1.1B*	1.0B*	NA	0.1
Copper	µg/L	2.3B*	(<1.52U)	NA	1.5
Iron	µg/L	4,100	4,530	10	NR
Magnesium	µg/L	1,500	1,370	9.1	NR
Manganese	µg/L	164	177	7.6	NR
Nickel	µg/L	3.1B*	2.2B*	NA	0.9
Potassium	µg/L	1,640	1,870	NA	230
Silver	µg/L	1.1B*	(<1.04U)	NA	0.6
Sodium	µg/L	8,040	8,710	8	NR
Thallium	µg/L	3.4B*	(<3.28U)	NA	1.8
Vanadium	µg/L	1.3B*	1.9B*	NA	0.6
Zinc	µg/L	3.7B*	4.0B*	NA	0.3

NOTE: NA = Not applicable; the analyte concentration does not exceed 5 times the CRDL and, therefore, the difference measurement is applied.
NR = Not required; the analyte concentration exceeds 5 times the CRDL and, therefore, the RPD was applied.
B* = Analyte concentration is between the Instrument Detection Limit and the CRDL.
U = Not detected. Sample quantitation limits are shown as (<____ U).
Results in bold indicate an exceedance of the precision requirements.

Precision requirements were met for both organic and inorganic analyses with the exception of aluminum. The analytical results for aluminum should be considered an estimate of the true concentrations based on the exceedance of precision criteria for field duplicates. All other analytical data are usable as reported based on the review of the field duplicate precision.

C.8 METHOD DETECTION LIMITS FOR AQUEOUS SAMPLES

Appendix C.1 provides the method detection limit for aqueous samples, respectively.
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: 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	0.98	0.96	0.95	1.38	1.07	0.16	0.50
TETRACHLOROETHENE	1.00	1.18	1.08	1.19	1.07	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

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
TOLUENE	1.00	1.10	1.03	1.09	1.01	0.98	1.04	1.30	1.08	0.11	0.33
TRANS-1,3-DICHLOROPROPENE	1.00	1.00	1.03	1.08	1.01	1.01	1.01	1.18	1.05	0.07	0.20
TRICHLOROETHENE	1.00	1.11	0.97	1.04	1.06	1.01	0.99	1.33	1.07	0.12	0.39
TRICHLOROFLUOROMETHANE	1.00	1.09	0.95	1.06	1.00	1.07	1.05	1.23	1.06	0.09	0.27
VINYL ACETATE	1.00	0.92	0.83	0.86	0.86	1.07	0.64	0.64	0.83	0.15	0.48
VINYL CHLORIDE	1.00	1.04	0.99	0.93	0.86	0.82	0.82	1.19	0.95	0.14	0.42

Date: 1/5/2000 8:19:57 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

S8542 #48

Analyst: KMC

Reviewed and Approved by: JB

Date: 020702

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	1.05	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	1.43	0.75	1.13	0.87	0.99	0.31	0.96
ACRYLONITRILE	1.00	0.95	0.81	1.23	1.06	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

Date: 1/5/2000 8:19:57 AM

Matrix: AQ

Compound List: 8260

Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

Analyst: KMC

Reviewed and Approved by:

Date:

File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
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

Date: 1/5/2000 8:19:57 AM
Matrix: AQ
Compound List: 8260
Instrument: 5972-S

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
10400 AND 020400	1.00,2.00	S8093-96,S8098-S8100

Analyst: KMC
Reviewed and Approved by: Date:
File: S0104MDL.XLS

Compound	Spike	S8093	S8094	S8095	S8096	S8098	S8099	S8100	AVG	STD DEV	MDL
TRANS-1,3-DICHLOROPROPENE	1.00	1.05	0.95	0.93	0.81	0.92	0.88	0.86	0.91	0.08	0.24
TRICHLOROETHENE	2.00	2.23	2.20	2.34	2.11	2.12	1.94	2.04	2.14	0.13	0.41
TRICHLOROFLUOROMETHANE	1.00	1.14	1.12	1.05	1.12	1.01	0.98	0.97	1.06	0.07	0.22
VINYL ACETATE	2.00	1.95	1.96	1.87	1.92	1.74	1.86	1.68	1.85	0.11	0.34
VINYL CHLORIDE	1.00	1.14	1.27	1.13	1.09	0.87	1.05	0.99	1.08	0.13	0.40

Date: 1/12/2000 1:44:50 PM
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: 020200
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

Date: 1/12/2000 1:44:50 PM
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	1.25	1.15	1.01	1.14	0.07	0.22
TETRAHYDROFURAN	1.00	1.25	0.66	1.10	1.07	0.90	0.59	0.77	0.91	0.25	0.77
TOLUENE	1.00	1.03	1.11	1.11	1.09	1.15	1.10	1.07	1.09	0.04	0.12

Date: 1/12/2000 1:44:50 PM
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
TRANS-1,3-DICHLOROPROPENE	1.00	0.70	0.74	0.68	0.67	0.82	0.69	0.69	0.71	0.05	0.16
TRICHLOROETHENE	1.00	0.98	0.92	0.98	0.90	1.09	1.01	0.97	0.98	0.06	0.19
TRICHLOROFLUOROMETHANE	1.00	1.24	1.28	1.41	1.35	1.38	1.37	1.36	1.34	0.06	0.19
VINYL ACETATE	1.00	0.63	0.52	0.51	0.44	0.57	0.38	0.30	0.48	0.11	0.36
VINYL CHLORIDE	1.00	1.36	1.41	1.36	1.29	1.53	1.42	1.46	1.40	0.08	0.24

Date: 2/10/2000 9:04:30 AM
Matrix: AQ
Compound List: 8260
Instrument: HP5970Q

Katahdin Analytical Services
MDL Study

Dates of Analysis	Spike	Data Files
20900	5	Q8425-Q8432

Analyst: HMP
Reviewed and Approved by: JB
File: Q82WMDL1.XLS

Date: 021000

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	9.62	10.75	8.30	9.48	9.47	0.90	2.82
ACROLEIN	5.00	2.09	4.18	4.98	4.82	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

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:
File: Q82WMDL1.XLS

Date:

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: 2/11/2000 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: 021402
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	1.09	1.22	1.10	0.08	0.25

Date: 2/11/2000 7:46:16 AM
Matrix: AQ
Compound List: 8260 5ML
Instrument: 5972-M

Katahdin Analytical Services
MDL Study

Dates 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
TETRAHYDROFURAN	1.00	1.14	0.99	1.08	1.01	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: 2/11/2000 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
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)

Compound	Spike	X4544 X4283 X4275	X4460 X4284 X4277	X4385 X4285 X4278	X3118 X4286 X4280	X2965 X4287 X4281	X2964 X4288 X4282	X2922 X4290 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
ACENAPHTHYLENE	2.00	1.30	1.30	1.39	1.27	0.98	1.31	1.32	1.27	0.13	0.41
ANILINE	2.00	0.39	0.13	0.11	0.19	0.08	0.19	0.33	0.20	0.12	0.36
ANTHRACENE	2.00	1.49	1.48	1.41	1.41	1.30	1.34	1.41	1.41	0.07	0.22

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:

Compound	Spike	X4544 X4283 X4275	X4460 X4284 X4277	X4385 X4285 X4278	X3118 X4286 X4280	X2965 X4287 X4281	X2964 X4288 X4282	X2922 X4290 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	2.00	1.47	1.41	1.53	1.70	1.32	1.36	1.40	1.46	0.13	0.40

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

2/3/00

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	

On Server A in Drive GC-1...\MDL\GC08\PEST00.XLS

B80813510

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.

Appendix D

Ground-Water Analytical Report Data Tables

SAMPLE KEY – BUILDING 95
NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Designation	Sample Station
Monitoring Wells	
BN-11-95-MW97	MW-97
BN-11-95-MW98	MW-98
BN-11-95-MWXD1	MW-98 – Duplicate
Trip Blank	
BN-11-95-QT02	Trip Blank

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page 1 of 1

Client: EA | Contact: Sue Chase | Phone #: (207) 798-5977 | Fax #: ( ) 798-5977

Address: 3 Washington Center | City: Newburgh | State: NY | Zip Code: 12550

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

Bill (if different than above) | Address

Sampler (Print / Sign): Suzanne Chase | Copies To:

LAB USE ONLY | WORK ORDER #: WQ1022 | 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)	2,4,5-T 2,4-D (Filt. ☐Y ☒N)	Simazine, Dazinon, Malathion (Filt. ☐Y ☒N)	Baygon Sevin (Filt. ☐Y ☒N)	Pesticides (Filt. ☐Y ☒N)	Cyanide (Filt. ☐Y ☒N)	Metals (Filt. ☐Y ☒N)	SVOC (Filt. ☐Y ☒N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
1	BN-11-~~95~~ 97-MW~~230~~	4/17/00 930	W	43	X	X	X	X	X	X	X	X	MS/MSD	
2	BN-11-95-MW~~231~~ 98	4/17/00 940	W	15	X	X	X	X	X	X	X	X		
3	BN-11-95-MWXD1	4/17/00 —	W	15	X	X	X	X	X	X	X	X		
	~~BN-11-95-MW230~~	/	W	~~2~~				~~BN~~			~~BN X~~			
	BN-11-95-QT02 ~~FRTP-7BN~~	4/17/00 930	QW	3	X									
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: Sample SDG start with sample BN-11-95-MW97. All samples listed are included in this SDG. SDG closed with this COC. Please forward COCs and Form 1s to Sue Chase.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Brian D. Crocker	4/17/00 1515	[signature]		4-17-00 1600	Shelley Wilk
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THIS IS AN EXACT COPY OF THE ORIGINAL

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

THIS IS AN EXACT COPY OF THE ORIGINAL

CHAIN of CUSTODY

00-04-373

PLEASE PRINT IN PEN

Page ____ of ____

ent: Katahdin Analytical Services
Contact: Andrea Colby
Phone #: ( )
Fax #: ( )
ldress: as above
City
State
Zip Code
urchase Order #
Proj. Name / No.
Katahdin Quote #
ll (if different than above)
Address
ampler (Print / Sign)
Copies To:

LAB USE ONLY
WORK ORDER #:
KATAHDIN PROJECT MANAGER
EMARKS: Sub to North Coast
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 Baygon + Sevin	Filt. ☐Y☐N Diazinon, Malathion, Simazine	Filt. ☐Y☐N 2,4,5-T + 2,4-D	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	WQ 1022-1	4-17-00/0930	AQ	18	X	X	X	— MS/MSD						
	WQ 1022-2	4-17-00/0940	AQ	6	X	X	X							
	WQ 1022-3	4-17-00/—	AQ	6	X	X	X							
		/												
		/												
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		/												
		/												

COMMENTS
See attached page for QC level, TAT, etc.
Rec'd @ NCL @ 2°C, cooler blank.
Seals on coolers intact on receipt.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4-17-00 1625	Fed Ex		4/18/00 1225	[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: WQ1022-1
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW97	AQ	4/17/00	4/17/00	4/22/00	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: WQ1022-1
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW97	AQ	4/17/00	4/17/00	4/22/00	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	112	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	107	%	1.0		
1,2-DICHLOROETHANE-D4	113	%	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: WQ1022-2
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW98	AQ	4/17/00	4/17/00	4/22/00	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: WQ1022-2
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW98	AQ	4/17/00	4/17/00	4/22/00	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	113	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	110	%	1.0		
1,2-DICHLOROETHANE-D4	118	%	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: WQ1022-3
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MWXD1	AQ	4/17/00	4/17/00	4/22/00	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: WQ1022-3
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MWXD1	AQ	4/17/00	4/17/00	4/22/00	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	112	%	1.0		
TOLUENE-D8	107	%	1.0		
P-BROMOFLUOROBENZENE	110	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	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: WQ1022-4
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-QT02	AQ	4/17/00	4/17/00	4/22/00	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	JB0.7	ug/L	1.0	1.0	1.0
ACETONE	<5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ1022-4
SDG: BN1195MW97
Report Date: 4/26/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8260
Date Analyzed: 4/22/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-QT02	AQ	4/17/00	4/17/00	4/22/00	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	112	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	107	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ1022-1
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW97	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	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: none

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center

Newburgh, NY 12550

Proj. ID:

Lab Number: WQ1022-1
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW97	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	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	52	%	1.0		
PHENOL-D6	35	%	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: WQ1022-1
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW97	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	54	%	1.0		
2-FLUOROBIPHENYL	82	%	1.0		
2,4,6-TRIBROMOPHENOL	62	%	1.0		
TERPHENYL-D14	100	%	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: WQ1022-2
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW98	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	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: WQ1022-2
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW98	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	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	59	%	1.0		
PHENOL-D6	38	%	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: WQ1022-2
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MW98	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	68	%	1.0		
2-FLUOROBIPHENYL	88	%	1.0		
2,4,6-TRIBROMOPHENOL	71	%	1.0		
TERPHENYL-D14	103	%	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: WQ1022-3
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MWXD1	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	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: WQ1022-3
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MWXD1	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	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	30	%	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: WQ1022-3
SDG: BN1195MW97
Report Date: 5/2/00
PO No. : 29600.47
Project: LTMP EVENT 16
% Solids: N/A
Method: EPA 8270B
Date Analyzed: 4/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
BN-11-95-MWXD1	AQ	4/17/00	4/17/00	4/21/2000	DPD	EPA 3510	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	47	%	1.0		
2-FLUOROBIPHENYL	64	%	1.0		
2,4,6-TRIBROMOPHENOL	52	%	1.0		
TERPHENYL-D14	69	%	1.0		

Report Notes:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: WATER
Percent Solids: 0.00

Client Field ID: BN-11-95-MW97
SDG Name: BN1195MW97
Lab Sample ID: WQ1022-001

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	117			P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	33.1			P	1
7440-41-7	BERYLLIUM	0.11	U		P	1
7440-43-9	CADMIUM	0.30	U		P	1
7440-70-2	CALCIUM	15500			P	1
7440-47-3	CHROMIUM	0.74	U		P	1
7440-48-4	COBALT	1.2	B		P	1
7440-50-8	COPPER	2.6	B		P	1
7439-89-6	IRON	91.7			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	1860			P	1
7439-96-5	MANGANESE	214			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	1.6	B		P	1
7440-09-7	POTASSIUM	2330			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	1.04	U		P	1
7440-23-5	SODIUM	6810			P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	0.94	U		P	1
7440-66-6	ZINC	4.2	B		P	1

Color Before: COLORLESS
Clarity Before: CLEAR
Color After: COLORLESS
Clarity After: CLEAR
Comments:

FORM I - IN

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | Client Field ID: BN-11-95-MW98

Matrix: WATER | SDG Name: BN1195MW97

Percent Solids: 0.00 | Lab Sample ID: WQ1022-002

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	488			P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	23.5			P	1
7440-41-7	BERYLLIUM	0.11	U		P	1
7440-43-9	CADMIUM	0.30	U		P	1
7440-70-2	CALCIUM	8300			P	1
7440-47-3	CHROMIUM	2.7	B		P	1
7440-48-4	COBALT	1.1	B		P	1
7440-50-8	COPPER	2.3	B		P	1
7439-89-6	IRON	4100			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	1500			P	1
7439-96-5	MANGANESE	164			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	3.1	B		P	1
7440-09-7	POTASSIUM	1640			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	1.1	B		P	1
7440-23-5	SODIUM	8040			P	1
7440-28-0	THALLIUM	3.4	B		P	1
7440-62-2	VANADIUM	1.3	B		P	1
7440-66-6	ZINC	3.7	B		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

FORM I - IN

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | Client Field ID: BN-11-95-MWXD1

Matrix: WATER | SDG Name: BN1195MW97

Percent Solids: 0.00 | Lab Sample ID: WQ1022-003

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7429-90-5	ALUMINUM	212			P	1
7440-36-0	ANTIMONY	2.32	U		P	1
7440-38-2	ARSENIC	1.98	U		P	1
7440-39-3	BARIUM	21.8			P	1
7440-41-7	BERYLLIUM	0.11	U		P	1
7440-43-9	CADMIUM	0.30	U		P	1
7440-70-2	CALCIUM	8820			P	1
7440-47-3	CHROMIUM	1.2	B		P	1
7440-48-4	COBALT	1.0	B		P	1
7440-50-8	COPPER	1.52	U		P	1
7439-89-6	IRON	4530			P	1
7439-92-1	LEAD	1.48	U		P	1
7439-95-4	MAGNESIUM	1370			P	1
7439-96-5	MANGANESE	177			P	1
7439-97-6	MERCURY	0.02	U		CV	1
7440-02-0	NICKEL	2.2	B		P	1
7440-09-7	POTASSIUM	1870			P	1
7782-49-2	SELENIUM	2.98	U		P	1
7440-22-4	SILVER	1.04	U		P	1
7440-23-5	SODIUM	8710			P	1
7440-28-0	THALLIUM	3.28	U		P	1
7440-62-2	VANADIUM	1.9	B		P	1
7440-66-6	ZINC	4.0	B		P	1

Color Before: COLORLESS | Clarity Before: CLEAR

Color After: COLORLESS | Clarity After: CLEAR

Comments:

FORM I - IN

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Sample ID: WQ1022-1
SDG: BN1195MW97
Report Date: 04/28/2000
PO No.: 29600.47
Project: LTMP EVENT 16
Percent Solids: N/A
Analytical Method: SW846 8081A

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
BN-11-95-MW97	Aqueous	04/17/2000	04/17/2000	04/19/2000	DPD	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
alpha-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
gamma-BHC (Lindane)		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Heptachlor		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Aldrin		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
beta-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
delta-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Heptachlor epoxide	C	0.070	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Endosulfan I		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
4,4'-DDE		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Dieldrin		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endrin		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
4,4'-DDD		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endosulfan II		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
4,4'-DDT		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endrin aldehyde		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endosulfan sulfate		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Methoxychlor		< 0.50	ug/L	1.0	0.50	0.50	04/22/2000	DBG
Toxaphene		< 1.0	ug/L	1.0	1.0	1.0	04/22/2000	DBG
alpha-Chlordane	C	0.092	ug/L	1.0	0.050	0.050	04/22/2000	DBG
gamma-Chlordane		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Endrin ketone		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
2,4,5,6-Tetrachloro-meta-xylene		81	%	1.0			04/22/2000	DBG
Decachlorobiphenyl		95	%	1.0			04/22/2000	DBG

Report Notes:

'C' flag denotes that the identification of the analyte was confirmed by analysis on dissimiliar columns.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Sample ID: WQ1022-2
SDG: BN1195MW97
Report Date: 04/28/2000
PO No.: 29600.47
Project: LTMP EVENT 16
Percent Solids: N/A
Analytical Method: SW846 8081A

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
BN-11-95-MW98	Aqueous	04/17/2000	04/17/2000	04/19/2000	DPD	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
alpha-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
gamma-BHC (Lindane)		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Heptachlor		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Aldrin		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
beta-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
delta-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Heptachlor epoxide		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Endosulfan I		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
4,4'-DDE		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Dieldrin		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endrin		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
4,4'-DDD		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endosulfan II		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
4,4'-DDT		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endrin aldehyde		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endosulfan sulfate		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Methoxychlor		< 0.50	ug/L	1.0	0.50	0.50	04/22/2000	DBG
Toxaphene		< 1.0	ug/L	1.0	1.0	1.0	04/22/2000	DBG
alpha-Chlordane		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
gamma-Chlordane		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Endrin ketone		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
2,4,5,6-Tetrachloro-meta-xylene		89	%	1.0			04/22/2000	DBG
Decachlorobiphenyl		94	%	1.0			04/22/2000	DBG

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: SHERRI PULLAR
EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Sample ID: WQ1022-3
SDG: BN1195MW97
Report Date: 04/28/2000
PO No.: 29600.47
Project: LTMP EVENT 16
Percent Solids: N/A
Analytical Method: SW846 8081A

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
BN-11-95-MWXD1	Aqueous	04/17/2000	04/17/2000	04/19/2000	DPD	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
alpha-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
gamma-BHC (Lindane)		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Heptachlor		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Aldrin		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
beta-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
delta-BHC		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Heptachlor epoxide		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Endosulfan I		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
4,4'-DDE		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Dieldrin		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endrin		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
4,4'-DDD		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endosulfan II		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
4,4'-DDT		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endrin aldehyde		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Endosulfan sulfate		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
Methoxychlor		< 0.50	ug/L	1.0	0.50	0.50	04/22/2000	DBG
Toxaphene		< 1.0	ug/L	1.0	1.0	1.0	04/22/2000	DBG
alpha-Chlordane		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
gamma-Chlordane		< 0.050	ug/L	1.0	0.050	0.050	04/22/2000	DBG
Endrin ketone		< 0.10	ug/L	1.0	0.10	0.10	04/22/2000	DBG
2,4,5,6-Tetrachloro-meta-xylene		83	%	1.0			04/22/2000	DBG
Decachlorobiphenyl		91	%	1.0			04/22/2000	DBG

Katahdin ANALYTICAL SERVICES

CLIENT: SHERRI PULLAR
EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Number : WQ-1022-1
Report Date: 05/17/00
PO No. : 29600.47
Project : LTMP EVENT 16

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BN-11-95-MW97	Aqueous	S.CHASE	04/17/00	04/17/00

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Cyanide, Total	<10	µg/L	1	10	335.4	04/28/00	MB	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 04/27/00 by CBU

05/17/00

LJO/msmajc(dw)
QD28CNW1
CC: SUE CHASE
EA ENGINEERING
BNAS
BUILDING 50

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No.5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

CLIENT: SHERRI PULLAR
EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Number : WQ-1022-2
Report Date: 05/17/00
PO No. : 29600.47
Project : LTMP EVENT 16

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BN-11-95-MW98	Aqueous	S.CHASE	04/17/00	04/17/00

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Cyanide, Total	<10	µg/L	1	10	335.4	04/28/00	MB	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 04/27/00 by CBU

05/17/00

LJO/msmajc(dw)
QD28CNW1
CC: SUE CHASE
EA ENGINEERING
BNAS
BUILDING 50

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
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210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

CLIENT: SHERRI PULLAR
EA Engineering
3 Washington Center
Newburgh, NY 12550

Lab Number : WQ-1022-3
Report Date: 05/17/00
PO No. : 29600.47
Project : LTMP EVENT 16

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BN-11-95-MWXD1	Aqueous	S.CHASE	04/17/00	04/17/00

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Cyanide, Total	<10	µg/L	1	10	335.4	04/28/00	MB	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 04/27/00 by CBU

05/17/00

LJO/msmajc(dw)
QD28CNW1
CC: SUE CHASE
EA ENGINEERING
BNAS
BUILDING 50

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

NCL WO#0004373
EPA 632 - WATER

IV. ANALYTICAL RESULTS

A. Results Data Sheets for EPA 632

NCL Sample ID: 0004373-01A Date/Time Analyzed: 5/5/00 04:02:09

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	QUALIFIER
Propoxur	114-26-1	< 3.0	ND
Carbaryl	63-25-2	< 40	ND

NCL Sample ID: 0004373-02A Date/Time Analyzed: 5/5/00 05:09:18

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	QUALIFIER
Propoxur	114-26-1	< 3.0	ND
Carbaryl	63-25-2	< 40	ND

NCL Sample ID: 0004373-03A Date/Time Analyzed: 5/5/00 06:16:31

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	QUALIFIER
Propoxur	114-26-1	< 3.0	ND
Carbaryl	63-25-2	< 40	ND

NCL WO#: 0004373
EPA 8151A – WATER

IV. ANALYTICAL RESULTS

A. Results Data Sheets for EPA 8151A

NCL Sample ID: 0004373-01M Date/Time Analyzed: 5/11/00 20:39:23

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	DILUTION FACTOR	QUALIFIER
2,4-D	94-75-7	< 1.0	1.0	ND
2,4,5-T	93-76-5	< 0.5	1.0	ND

NCL Sample ID: 0004373-02E Date/Time Analyzed: 5/11/00 21:03:29

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	DILUTION FACTOR	QUALIFIER
2,4-D	94-75-7	< 1.0	1.0	ND
2,4,5-T	93-76-5	< 0.5	1.0	ND

NCL Sample ID: 0004373-03E Date/Time Analyzed: 5/11/00 21:27:38

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	DILUTION FACTOR	QUALIFIER
2,4-D	94-75-7	< 1.0	1.0	ND
2,4,5-T	93-76-5	< 0.5	1.0	ND

IV. ANALYTICAL RESULTS

A. Results Data Sheets for EPA 8141A

NCL Sample ID: 0004373-01G Date/Time Analyzed: 5/3/00 03:46:22

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	DILUTION FACTOR	QUALIFIER
Diazinon	333-41-5	< 0.5	1.0	ND
Simazine	122-34-9	< 0.5	1.0	ND
Malathion	121-75-5	< 0.5	1.0	ND

NCL Sample ID: 0004373-02C Date/Time Analyzed: 5/3/00 04:27:05

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	DILUTION FACTOR	QUALIFIER
Diazinon	333-41-5	< 0.5	1.0	ND
Simazine	122-34-9	< 0.5	1.0	ND
Malathion	121-75-5	< 0.5	1.0	ND

NCL Sample ID: 0004373-03C Date/Time Analyzed: 5/3/00 03:06:18

COMPOUND	CAS NO.	CONCENTRATION(µg/L)	DILUTION FACTOR	QUALIFIER
Diazinon	333-41-5	< 0.5	1.0	ND
Simazine	122-34-9	< 0.5	1.0	ND
Malathion	121-75-5	< 0.5	1.0	ND