U.S. Army Corps of Engineers

New England District
Concord, Massachusetts

Phase II Engineering Evaluation of Contamination at the Former Naval Auxiliary Landing Field – Site 8 Charlestown, Rhode Island

Contract No. DACW33-94-D-0009

VOLUME II
REPORT APPENDICES A - G

Delivery Order No. 0028
DCN: NALF-020801-AAAK

February 2001

98P-0892

WESTON
MANAGERS DESIGNERS/CONSULTANTS

VOLUME II – APPENDICES A - G

PHASE II ENGINEERING EVALUATION OF CONTAMINATION AT THE FORMER NAVAL AUXILIARY LANDING FIELD - SITE 8 CHARLESTOWN, RHODE ISLAND

Contract No. DACW33-94-D-0009
Delivery Order No. 0028
DCN: NALF-020801-AAAK

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 Virginia Road
Concord, Massachusetts 01742-2751

Prepared by:

ROY F. WESTON, INC
One Wall Street
Manchester, New Hampshire 03101-1501

February 2001

W.O. No. 10971.028.001.0019.02

APPENDIX A

SUMMARY INFORMATION FROM IT CORPORATION PHASE I REPORT, 1993.

TABLE 2-1
MONITORING WELL AND STAFF GAUGE CONSTRUCTION DATA
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

Well No.	Rhode Island Coordinates (ft) Easting	Northing	Installation Date	Screened Interval Depth	Length of Casing Elevation	Top of PVC Casing	Well Construction Material
CN-01	103076.49	285283.30	10-22-86	14-23.5	14	11.88	PVC
CN-02	103021.62	285310.31	10-23-86	13-25	13	16.31	PVC
CN-03	103041.43	285383.41	10-24-86	13-23	13	12.81	PVC
CN-04	102996.22	285442.36	10-27-86	18-28	18.2	15.58	PVC
CN-05	102859.41	283506.53	10-28-86	13-24	13	15.67	PVC
CN-06	102789.35	285892.98	10-29-86	10-20	10	9.42	PVC
CN-07	102474.14	285897.82	10-30-86	10-22	10	7.98	PVC
CN-08	102707.78	285849.21	10-30-86	10-18.4	10	7.51	PVC
CN-09	104286.90	283097.97	1-10-91	11.7-21.7	12	22.42	PVC
CN-10	100760.73	281900.52	1-11-91	3-13	5	8.86	PVC
CN-12	104080.52	283911.97	1-16-91	12.7-22.7	14.7	23.13	PVC
CN-13	104046.57	283800.26	1-17-91	10-20	12	22.97	PVC
SG-01	103968.07	283687.59	12-3-92	NA	NA	0.0=7.65	NA

SITE 8

NOTES:

All depths reported in feet.
All elevations reported in feet above mean sea level.

TABLE 2-2
SUMMARY OF WELL DEVELOPMENT DATA, JANUARY 23 TO 30, 1991
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

Well No.	Length of Development (min)	pH Start	pH Finish	Temp(C) Start	Temp(C) Finish	Cond. Start	Cond. Finish	Nephelometric Turbidity Unit (NTU) (Finish)
CN-01	105	6.13	6.13	11	11.5	50	50	1.90
CN-02	90	5.05	6.03	12	12	50	45	8.50
CN-03	105	5.78	6.18	12	12	45	40	0.80
CN-04	105	5.92	5.93	10	11	110	60	1.30
CN-05	90	6.16	6.18	10	11	100	100	72
CN-06	75	6.35	6.40	13	12.5	7,000	7,000	68
CN-07	105	6.46	6.49	12	10	17,000	15,000	77
CN-08	120	6.82	6.77	11	10	6,500	5,000	71
CN-09	135	6.82	6.93	11	11.5	125	100	6.9
CN-10	90	6.30	6.31	10.5	10.5	105	105	39
CN-12	255	10.66	6.32	8	9	260	150	46
CN-13	-	-	-	-	-	-	-	-

SITE 8

Note: Monitoring well CN-13 was not developed because it contained free product.
Cond. = specific conductivity (micromhos)
NTU = nephelometric turbidity unit

TABLE 2-3
SUMMARY OF WATER TABLE ELEVATIONS
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

Well No.	Elevation Top of PVC	Depth to Water (ft)		Groundwater Elevation (ft. MSL)		Depth to Product	Elevation of Product	Product Thickness
		2-27-91	12-5-92	2-27-91	12-5-92	12-5-92	12-5-92	
CN-01	11.88	10.16	9.49	1.72	2.39	NA	NA	NA
CN-02	16.31	14.71	14.10	1.60	2.21	NA	NA	NA
CN-03	12.81	10.95	10.38	1.86	2.43	NA	NA	NA
CN-04	15.58	13.98	13.45	1.60	2.13	NA	NA	NA
CN-05	15.67	10.88	10.17	4.79	5.50	NA	NA	NA
CN-06	9.42	7.95	8.47	1.47	0.95	NA	NA	NA
CN-07	7.98	6.76	7.27	1.22	0.71	NA	NA	NA
CN-08	7.51	6.29	6.70	1.22	0.81	NA	NA	NA
CN-09	22.42	15.80	15.85	6.62	6.57	NA	NA	NA
CN-10	8.86	7.06	6.94	1.80	1.92	NA	NA	NA
CN-12	23.13	14.63	14.61	8.50	8.52	NA	NA	NA
CN-13	22.97	NM	17.62	NM	8.47[1]	13.95	9.02	3.67
SG-01	7.65 at 0.0	NA	1.40	NA	9.05	NA	NA	NA

SITE 8

NOTES:
All elevations are reported in feet above mean sea level
NA = Not applicable
NM = Not measured, due to floating product
(1) Elevation estimated by the following calculation: WE = PE - [(1 - .85) x PT); where
WE = Water Elevation; PE = Product Elevation; PT = Product Thickness, and
0.85 = estimated specific gravity of product.

TABLE 3-6
Little Nini Pond
Water Quality Data
April 17, 1991
Former NALF Phase I RI/FS
Charlestown, Rhode Island

STE 8

Parameter	Station 1	Station 2	Station 3
Temperature C	11.48	11.77	11.49
pH	6.13	6.35	6.42
Dissolved Oxygen (mg/L)	9.89	10.61	10.12
Conductivity (umhos/cm)	0.044	0.049	0.053
Oxidation Reduction Potential (mv)	0.265	0.212	0.202
Depth M	0.2	0.3	0.3

TABLE 4-3 (Continued)
SUMMARY OF REPORTABLE COMPOUNDS - SOIL SAMPLES
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

SITE 8

Boring:	CN-12	CN-12	CN-12B	CN-12B	CN-13	CN-13	CN-14	CN-14	CN-14B	Published
Sample Interval (ft):	CP 0-6.8	2.0-4.0	CP 8.0-23.5	10.0-12.0	CP 0-15.2	14.0-15.2	14.0-16.0	CP 0-20.5	CP 20.0-29.1	Range[1]
Laboratory ID #:	Q10107101	Q10107103	Q10107102	Q10107104	Q10108401	Q10108403	Q1010500	Q10110502	Q10114501	(mg/kg)
Field ID Series #:	136392	136394	136393	136395	136486	136488	136489	136490	136494	
PARAMETERS										
Total Pet. Hydrocarbons [19](mg/kg)	23	NA	NR	NA	NR	NA	NA	36	NR	-
Total Metals (mg/kg)										
Antimony [6]	NR	NA	NR	NA	NR	NA	NA	NR	NR	-
Arsenic [1]	NR	NA	NR	NA	NR	NA	NA	NR	NR	2.8-10.9
Barium [20]	NR	NA	20	NA	NR	NA	NA	NR	120	-
Beryllium [0.5]	NR	NA	NR	NA	NR	NA	NA	NR	1.4	-
Cadmium [0.5]	NR	NA	NR	NA	NR	NA	NA	NR	NR	0.1-0.5
Chromium [1]	3	NA	4	NA	2	NA	NA	2	48	19-90
Copper [2.5]	8.8	NA	6.3	NA	4.7	NA	NA	6.1	8.8	10-43
Lead [5]	NR	NA	7	NA	NR	NA	NA	NR	NR	9-31
Nickel [4]	NR	NA	NR	NA	NR	NA	NA	NR	24	7-32
Zinc [2]	18	NA	16	NA	15	NA	NA	17	85	31-98
Volatile Organic Compounds (ug/kg)										
Acetone [1]	NA	NR	NA	690B	NA	NR	NR	NA	NA	-
Benzene [5]	NA	NR	NA	NR	NA	37	NR	NA	NA	-
2-Butanone [5]	NA	NR	NA	NR	NA	NR	NR	NA	NA	-
Ethylbenzene [5]	NA	NR	NA	58	NA	200	NR	NA	NA	-
4-Methyl-2-Pentanone [11]	NA	NR	NA	NR	NA	NR	NR	NA	NA	-
Toluene [5]	NA	NR	NA	NR	NA	42	NR	NA	NA	-
Total Xylenes [5]	NA	NR	NA	160	NA	1300	NR	NA	NA	-
Semivolatile Organic Compounds (ug/kg)										
Benzo(b)Fluoranthene [660]	NR	NA	NR	NA	NR	NA	NA	NR	NR	-
Pesticides (ug/kg)										
4,4'-DDD [37]	NR	NA	NR	NA	NR	NA	NA	54	NR	-
4,4'-DDT [37]	NR	NA	NR	NA	NR	NA	NA	110	NR	-

Notes:

(1) Shacklette,H. and Boergen, J., 1984, Element Concentrations in Soils and Other Surficial Material at the Conterminous United States, USGS Professional Paper, 1270.

[1] Method Detection Limit (mg/kg or ug/kg)

NA = Not Analyzed

NR = Not Reportable B = Compound Detected in Laboratory Method Blank D = Duplicate Sample

TABLE 4-4 (Continued)
SUMMARY OF DETECTED COMPOUNDS - GROUNDWATER
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

NEAREST TO SITE 8

Sample Location:	CN-10	CN-12	RW-1	RW-2	RW-3	RW-4	RW-5	Federal Drinking Water Standards (MCLs)
Field ID Series:	140331	140332	140328	140327	140326	141720	141721	
Laboratory ID #:	Q10215902	Q10215903	Q10215604	Q10215608	Q10215607	Q10412301	Q10412302	
PARAMETERS								
Total Pet. Hydrocarbons [0.02](mg/l)	NR	0.2	NA	NA	NA	NA	NA	-
Dissolved Metals (mg/l)								
Antimony [0.06]	NR	NR	NA	NA	NA	NA	NA	0.006
Cadmium [0.005]	NR	NR	NA	NA	NA	NA	NA	0.005
Chromium [0.01]	NR	NR	NA	NA	NA	NA	NA	0.1
Copper [0.025]	NR	NR	NA	NA	NA	NA	NA	1.0(2)
Lead [0.05]	NR	NR	NA	NA	NA	NA	NA	0.015(1)
Nickel [0.04]	NR	NR	NA	NA	NA	NA	NA	0.1
Silver [0.01]	NR	NR	NA	NA	NA	NA	NA	0.10(2)
Zinc [0.02]	0.02	0.02	NA	NA	NA	NA	NA	5(2)
Total Recoverable Metals (mg/l)								
Copper [0.025]	NR	NR	0.51	0.32	0.16	2.3	2.6	-
Lead [0.05]	NR	NR	NR	NR	NR	0.06	0.26	0.05
Tin [0.05]	NR	NR	NA	NA	NA	NR	0.05	-
Zinc [0.02]	0.02	0.03	0.06	0.04	0.24	NA	NA	5(2)
Total Suspended Solids (mg/l)								
(Nonfilterable Residue)	4	17	NA	NA	NA	NA	NA	500(2)
Volatile Organic Compounds (ug/l)								
Acetone [10]	NR	NR	NR	NR	NR	NR	NR	-
Ethylbenzene [5]	NR	98	NR	NR	NR	NR	NR	700
Methylene Chloride [5]	NR	NR	NR	NR	NR	NR	NR	-
Total Xylenes [5]	NR	220	NR	NR	NR	NR	NR	10,000
Semi-Volatile Organic Compounds (ug/L)								
2-Methylnaphthalene [10]	NR	31	NA	NA	NA	NA	NA	-
Naphthalene [10]	NR	31	NA	NA	NA	NA	NA	-

Notes: (1) Action (2) Secondary Maximum Contaminant Level
[10] Method Detection Limit (in mg/l or ug/l)
NA = Not Analyzed NR = Not Reportable D = Duplicate Sample

TABLE 4-4 (Continued)
SUMMARY OF REPORTABLE COMPOUNDS - SURFACE WATER AND HYDRANT WATER
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

Little Nini Pond / SITE 8

Sample Location:	SW-1	SW-1D	Hydrant
Field ID Series:	140330	140335	137380
Laboratory ID #:	Q10215901	Q10215907	Q01107901
PARAMETERS			
Dissolved Metals (mg/l)			
Copper [0.025]	NR	NR	0.033
Zinc [0.02]	0.02	NR	NR
Total Recoverable Metals (mg/l)			
Copper [0.025]	NR	NR	0.11
Zinc [0.02]	NR	0.02	0.04

Notes:
[0.025] Method Detection Limit (mg/l)
NA = Not Analyzed NR = Not Reportable D = Duplicate Sample

SITE 8 (See Figure 4-1)

Table 4-5
Summary of Analytical Results from
Groundwater and Soil Vapor Screening Samples
Former NALF Phase I RI/FS
Charlestown, Rhode Island

Sample Location	Depth Below Ground Surface (ft)	TCA	TCE	PCE	Benzene	Remarks
HP-01	13.5-15	0.008	0.006	0.005	190	
HP-02	13-14.5	0.09	<0.01	0.04	<1	
HP-03	12-15	0.02	<0.01	<0.02	<5,500	Product
HP-04	11.2-14.2	0.03	0.2	<0.02	<220	Product
HP-05	12-15	0.005	0.03	<0.02	<2	
HP-06	13.5-15	0.03	<0.01	0.04	<220	
HP-07	-	-	-	-	-	Refusal 10'
HP-08	13.5-15	0.004	<0.003	<0.002	<0.7	
HP-09	13.5-15	0.004	<0.003	<0.002	<0.3	
HP-10	13.5-15	0.008	<0.003	<0.002	<0.3	
CN-12	12.5	0.008	<0.003	<0.002	1,300	
SG-01	10	0.0002	<0.0002	0.0006	0.07	
SG-02	13	0.0006	<0.0002	0.0005	<0.04	
SG-03	8	0.0006	0.0002	<0.0003	<0.9	
SG-04	9	0.002	0.002	<0.0007	<370	
SG-05	6	0.0005	<0.0006	0.003	<0.04	
SG-06	9	0.005	0.02	<0.001	<18	
SG-07	9	0.001	0.002	<0.0007	<4	

Notes:
INT = Interference
HP-01 = Water Vapor sample from hydropunch location
SG-01 = Soil Vapor sample from soil gas sampling location
CN-12 = Water Vapor sample from well CN-12

SITE 8

Table 4-5 (Continued)
Summary of Analytical Results from
Groundwater and Soil Vapor Screening Samples
Former NALF Phase I RI/FS
Charlestown, Rhode Island

Sample Location	Depth Below Ground Surface (ft)	Toluene	Ethyl benzene	Xylenes	TVH	Remarks
HP-01	13.5-15	<4	<9	<14	1,300	
HP-02	13-14.5	<3	<11	<15	<13	
HP-03	12-15	INT	<2,300	210,000	4,600,000	Product
HP-04	11.2-14.2	<1,100	<2,300	<3,000	490,000	Product
HP-05	12-15	<7	<20	<30	600	
HP-06	13.5-15	INT	<2,300	89,000	1,900,000	
HP-07	-	-	-	-	-	Refusal 10'
HP-08	13.5-15	<2	<3	<6	250	
HP-09	13.5-15	<0.7	<1	<2	<2	
HP-10	13.5-15	<0.7	<1	<2	<2	
CN-12	12.5	<30	<70	<120	8,800	
SG-01	10	<0.09	<0.2	<0.2	<0.2	
SG-02	13	<0.09	<0.2	<0.2	<0.2	
SG-03	8	<0.2	<0.8	3	70	
SG-04	9	<1,100	<40	<50	43,000	
SG-05	6	<0.09	<0.2	<0.2	<0.2	
SG-06	9	<40	<80	<110	8,500	
SG-07	9	<9	<17	<20	800	

Notes:
INT = Interference
HP-01 = Water Vapor sample from hydropunch location
SG-01 = Soil Vapor sample from soil gas sampling location
CN-12 = Water Vapor sample from well CN-12

Table 4-6
Summary of Detected Compounds - Groundwater at HP-04
Former NALF Phase I RI/FS
Charlestown, Rhode Island

SITE 8

Sample Location Laboratory ID	HP-04 Q21207601	Trip Blank Q21207604	Federal Drinking Water Standards (MCLs)
PARAMETERS			
Volatile Organic Compounds (ug/L)			
Benzene	510	<10	5.0
4-methyl-2-pentanone	130	<10	-
Toluene	38J	<10	1,000
Ethylbenzene	180	<10	700
Xylene	1,000	<10	10,000
Methylene Chloride	<100	2J	-
Metals (mg/L)			
Aluminum	10.3		-
Arsenic	0.0053B		0.05
Barium	0.0935B		2
Beryllium	0.00096B		0.001
Calcium	152		-
Chromium	0.0096B		0.1
Cobalt	0.015B		-
Copper	0.0209B		1.3*
Iron	88.1		0.3(1)
Lead	0.0776		0.015*
Magnesium	9.07		-
Manganese	7.02		0.05(1)
Nickel	0.0116B		0.1
Potassium	6.32		-
Sodium	14.9		-
Vanadium	0.0143B		-
Zinc	0.505		5(1)

Notes:
(1) Secondary Maximum Contaminant Level (no MCL available)
J - Compound detected but below the contract required quantitation limit
B - The reported value is less than the Contract Detection Limit, but greater than the Instrument Detection Limit.
* - Action Level

DRAWN BY	D.M.B	CHECKED BY		10/18/93	DRAWING NUMBER	301313-A5
	10/18/93	APPROVED BY		10/18/93		

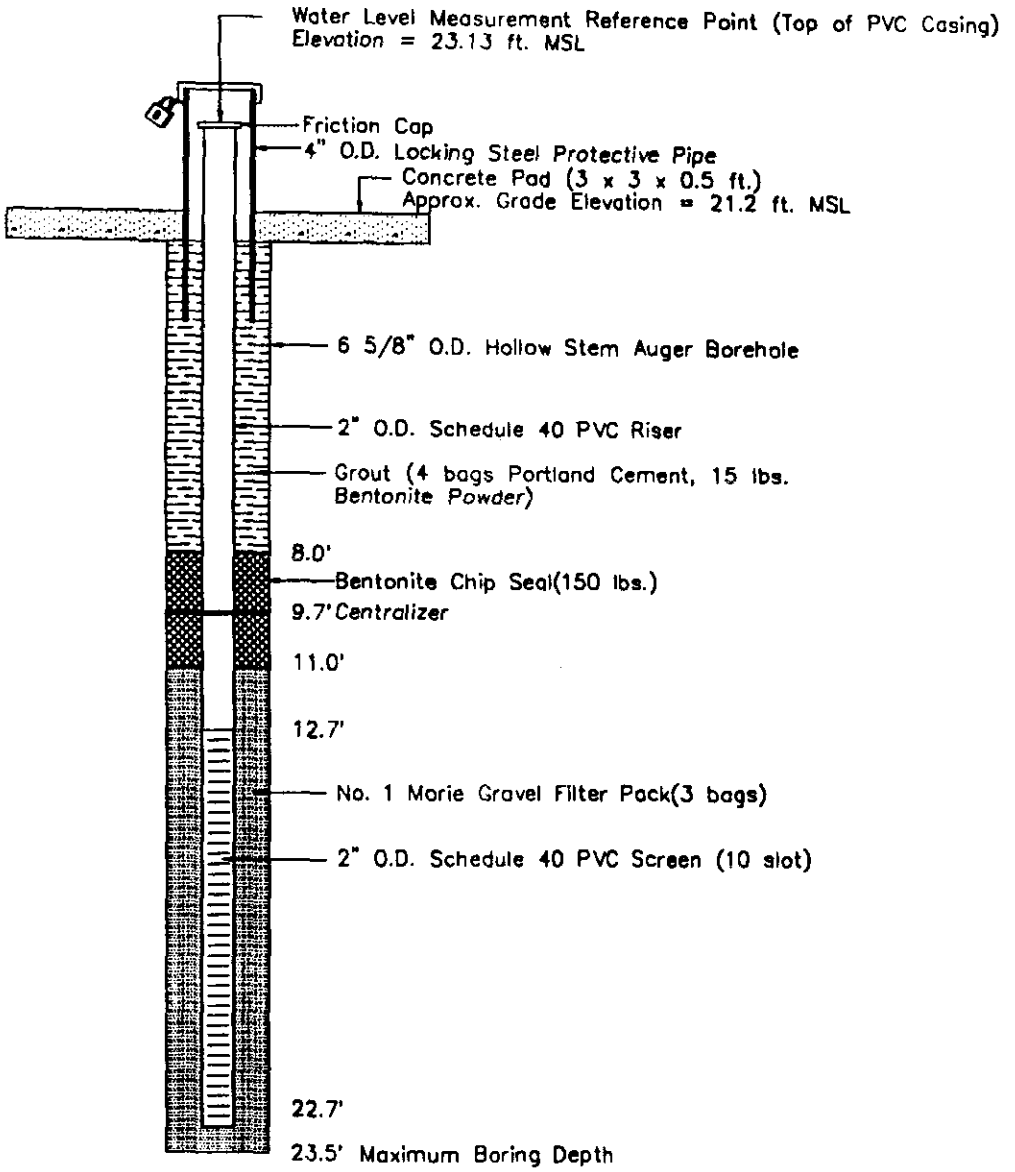


FIGURE 2-4
WELL CONSTRUCTION
CN-12

FORMER NAVAL AUXILARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

DRAWN BY	D.M.B.	CHECKED BY			DRAWING NUMBER	301313-46
	10/18/93	APPROVED BY		10/18/93		

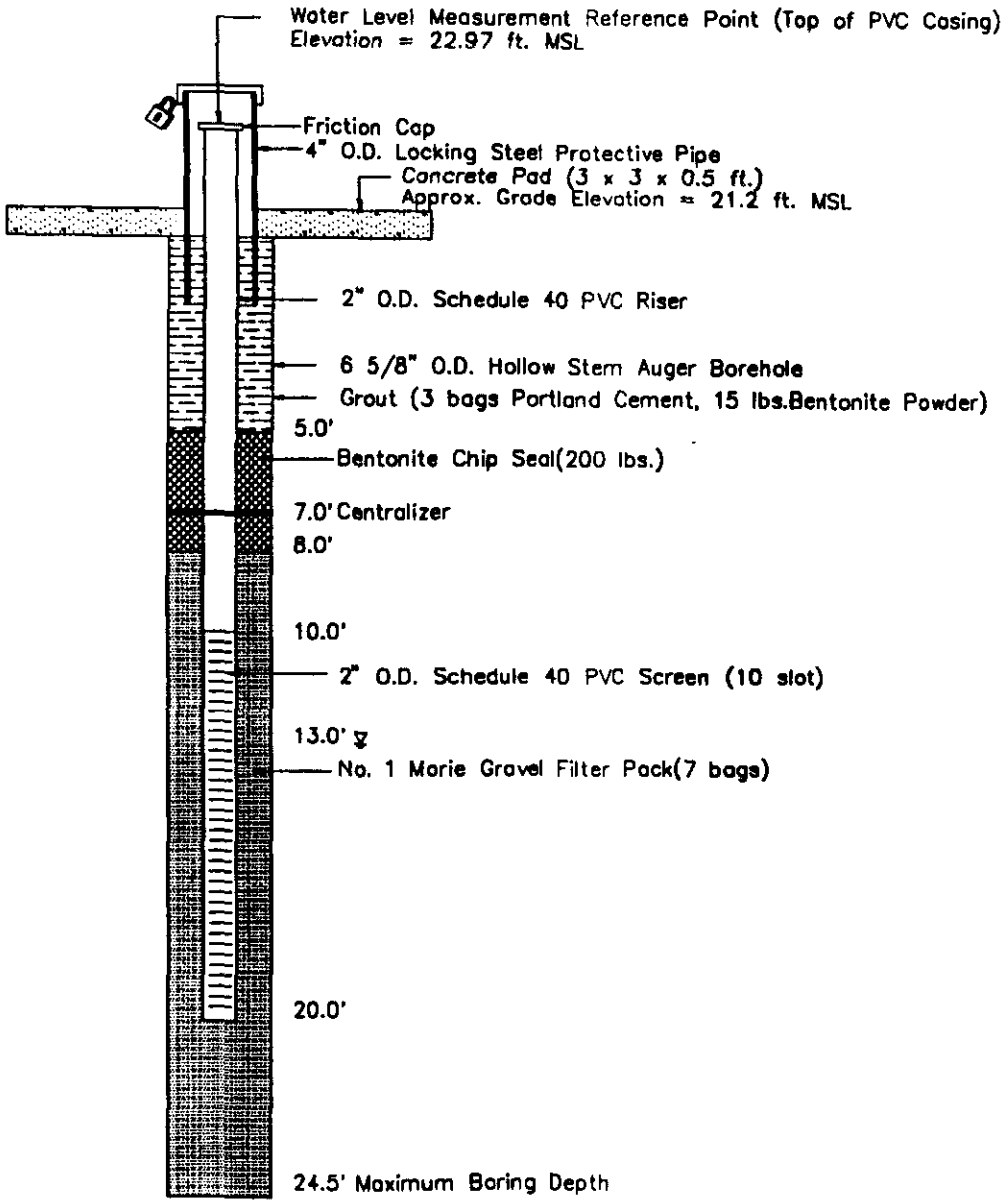


FIGURE 2-5
WELL CONSTRUCTION
CN-13

FORMER NAVAL AUXILARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

2.5 0 2.5 5.0
SCALE FEET

INTERNATIONAL TECHNOLOGY CORPORATION

301313A6 10/18/93 10:43am J.R.D.

DRAWN BY	E.K.W./J.R.D.	CHECKED BY		10/18/93	DRAWING NUMBER	301313-A2
	10/18/93	APPROVED BY		10/18/93		

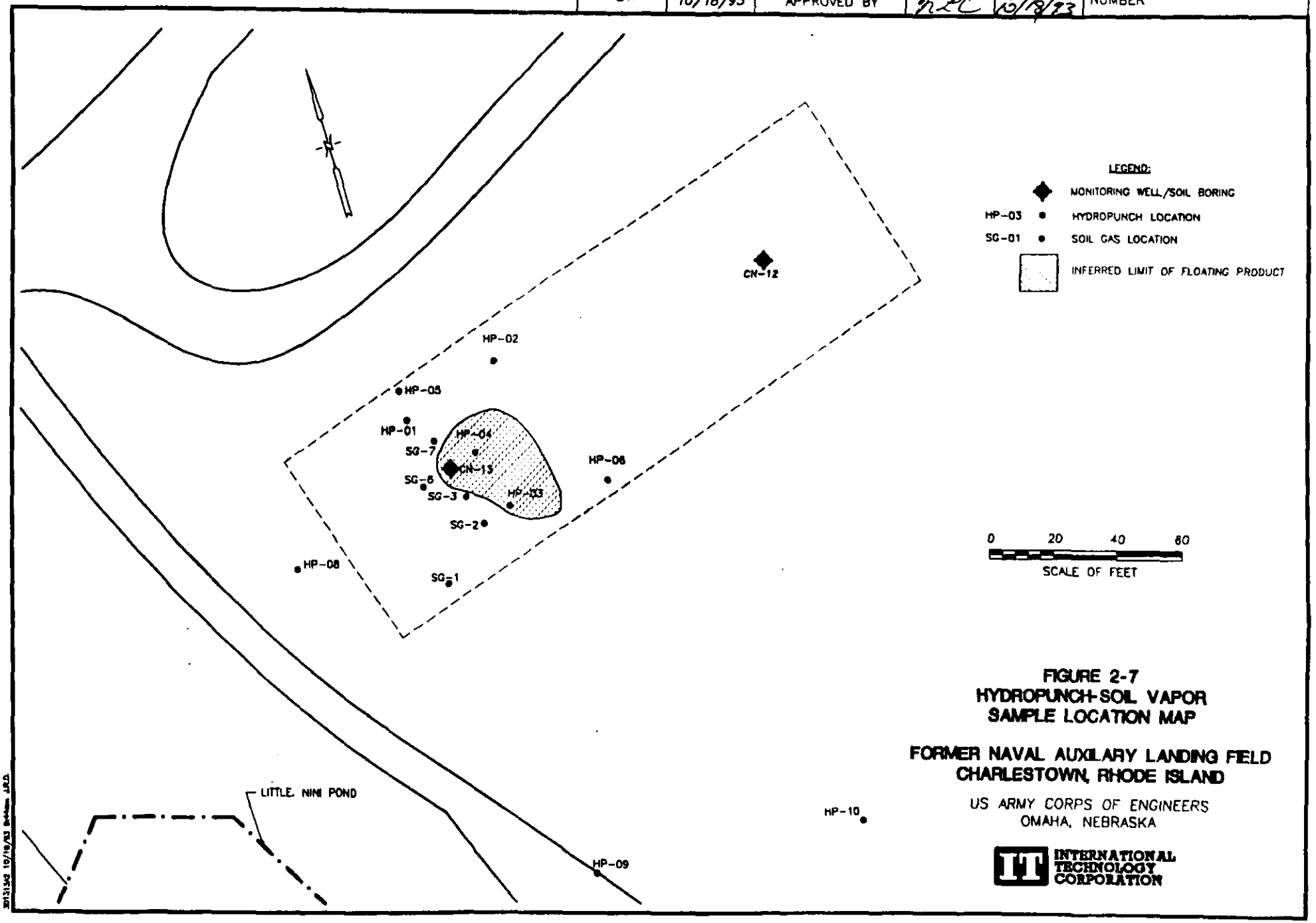


FIGURE 2-7
HYDROPUNCH-SOIL VAPOR SAMPLE LOCATION MAP

FORMER NAVAL AUXILARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

US ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

INTERNATIONAL TECHNOLOGY CORPORATION

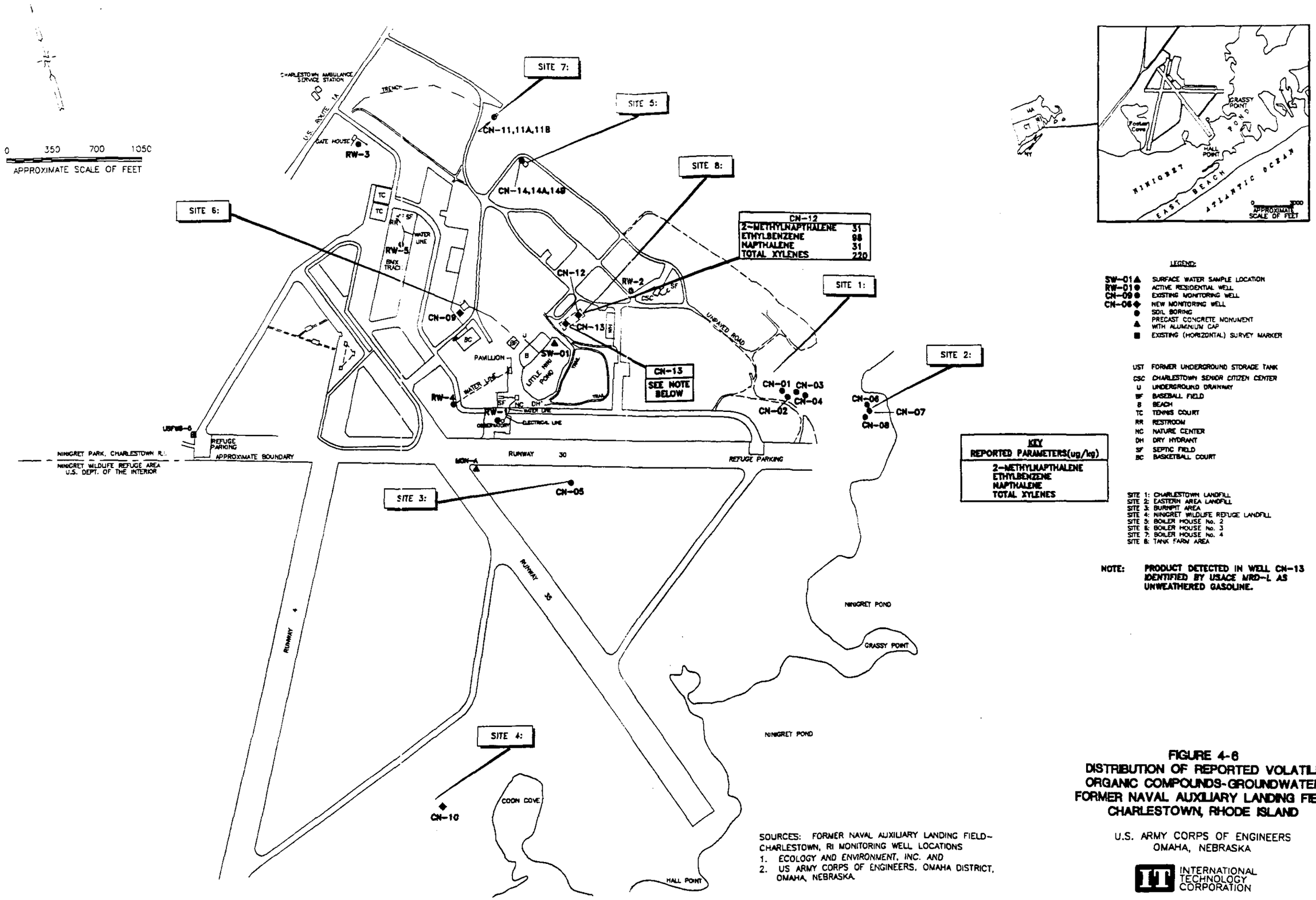


FIGURE 4-6
DISTRIBUTION OF REPORTED VOLATILE ORGANIC COMPOUNDS-GROUNDWATER FORMER NAVAL AUXILIARY LANDING FIELD CHARLESTOWN, RHODE ISLAND

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

INTERNATIONAL TECHNOLOGY CORPORATION

DRAWN BY E.K.W. 2/26/93
CHECKED BY 10/18/93
APPROVED BY 10/18/93
DRAWING NUMBER 301313-B11

31313B11 05/12/93 10:24am J.R.D.

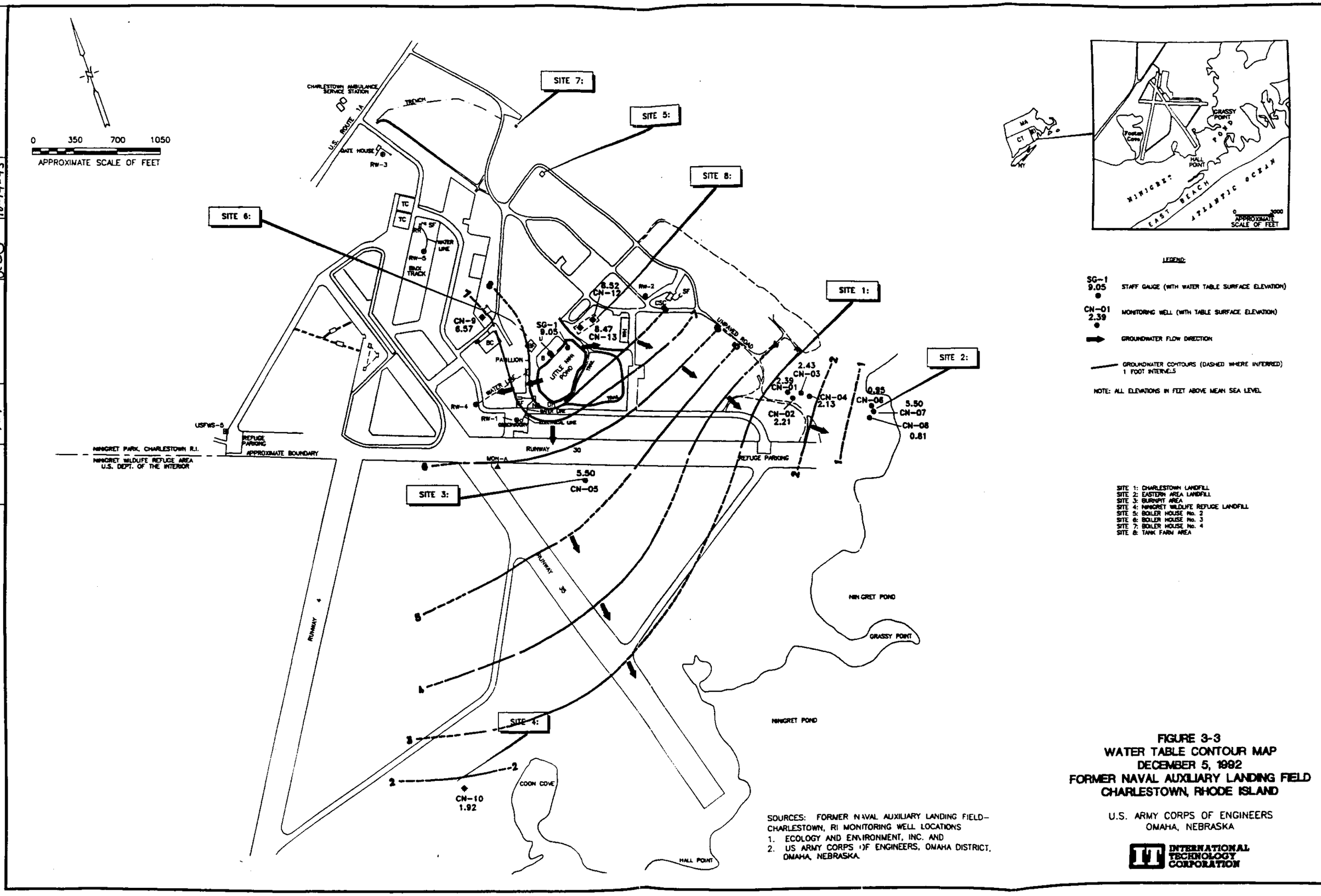
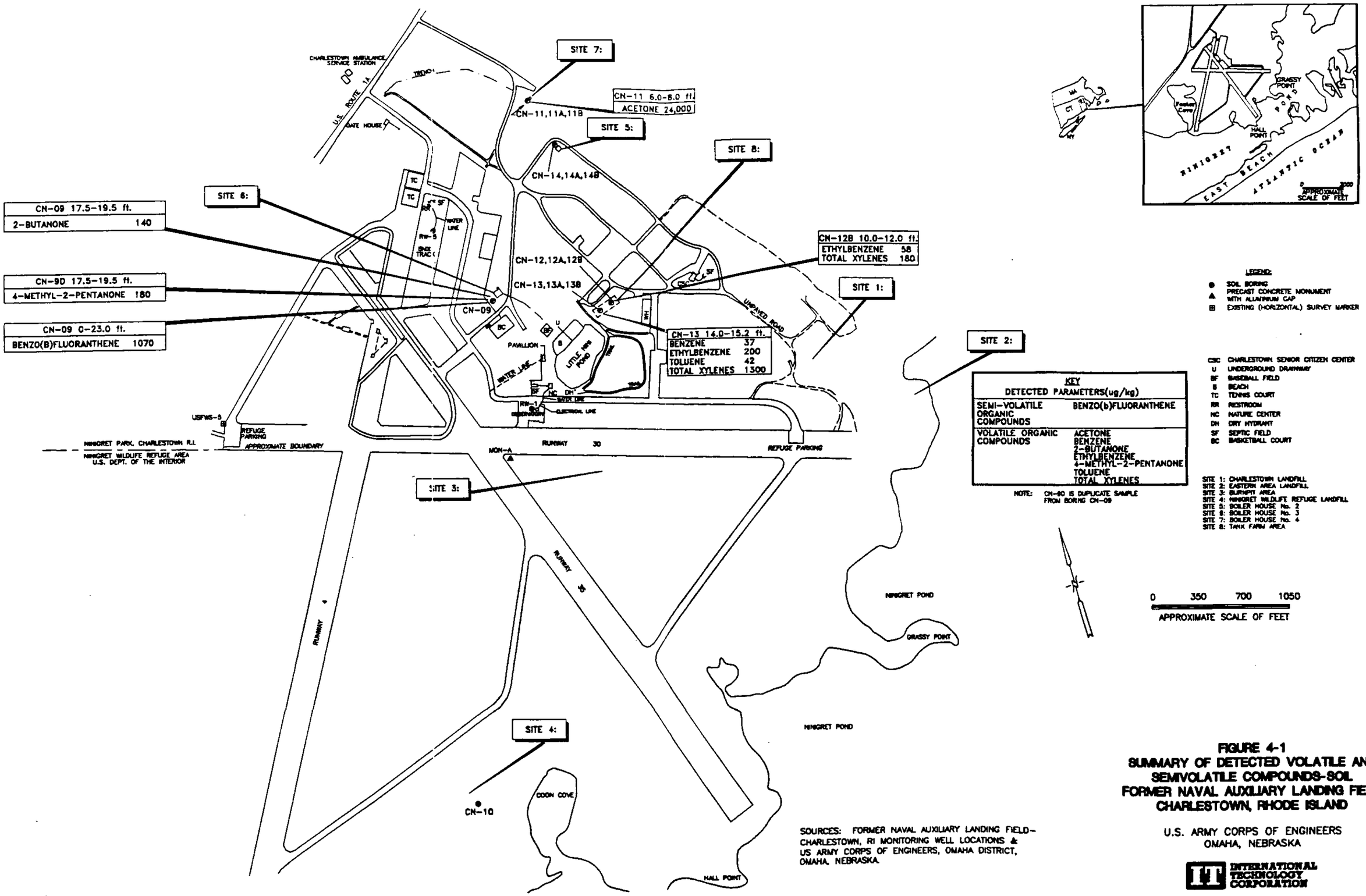


FIGURE 3-3
WATER TABLE CONTOUR MAP
DECEMBER 5, 1992
FORMER NAVAL AUXILIARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

DRAWN BY	E.K.W.	CHECKED BY		DRAWING NUMBER 301313-B5
	2/26/93	APPROVED BY	10-19-93	

301313B5 03/03/93 0:22pm J.R.D.



SOURCES: FORMER NAVAL AUXILIARY LANDING FIELD-CHARLESTOWN, RI MONITORING WELL LOCATIONS & US ARMY CORPS OF ENGINEERS, OMAHA DISTRICT, OMAHA, NEBRASKA.

FIGURE 4-1
SUMMARY OF DETECTED VOLATILE AND SEMIVOLATILE COMPOUNDS-SOIL
FORMER NAVAL AUXILIARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

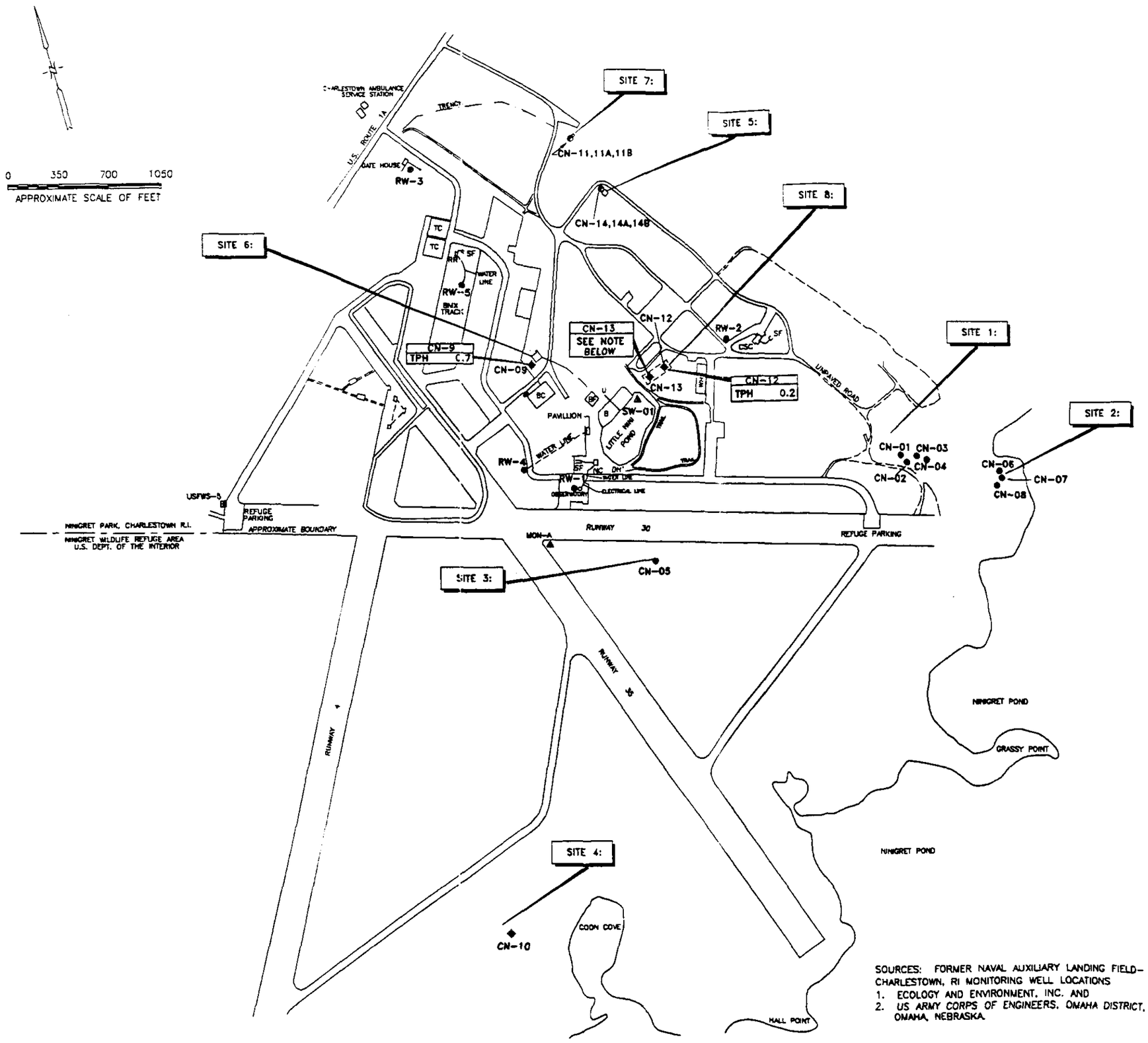
U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

INTERNATIONAL TECHNOLOGY CORPORATION

DRAWN BY	E.K.W.	2/26/93	CHECKED BY	APPROVED BY	10-19-93	DRAWING NUMBER	301313-86

301313B6 05/12/93 11:35am J.R.D.

DRAWN BY	E.K.W.	CHECKED BY		DRAWING NUMBER	301313-B10
	2/26/93	APPROVED BY			10/8/93 12/18/93



LEGEND:

SW-01▲ SURFACE WATER SAMPLE LOCATION
RW-01● ACTIVE RESIDENTIAL WELL
CN-09● EXISTING MONITORING WELL
CN-06◆ NEW MONITORING WELL
● SOIL BORING
▲ PRECAST CONCRETE MONUMENT WITH ALUMINUM CAP
⊞ EXISTING (HORIZONTAL) SURVEY MARKER

DETECTED PERAMETERS (ms/L)

TPH TOTAL PETROLEUM HYDROCARBONS

UST FORMER UNDERGROUND STORAGE TANK
CSC CHARLESTOWN SENIOR CITIZEN CENTER
U UNDERGROUND DRAINWAY
BF BASEBALL FIELD
B BEACH
TC TENNIS COURT
RR RESTROOM
NC NATURE CENTER
DH DRY HYDRANT
SF SEPTIC FIELD
BC BASKETBALL COURT

SITE 1: CHARLESTOWN LANDFILL
SITE 2: EASTERN AREA LANDFILL
SITE 3: BURNPIT AREA
SITE 4: NINIGRET WILDLIFE REFUGE LANDFILL
SITE 5: BOILER HOUSE No. 2
SITE 6: BOILER HOUSE No. 3
SITE 7: BOILER HOUSE No. 4
SITE 8: TANK FARM AREA

NOTE: PRODUCT DETECTED IN WELL CN-13 IDENTIFIED BY USACE MRD-L AS UNWEATHERED GASOLINE.

SOURCES: FORMER NAVAL AUXILIARY LANDING FIELD-CHARLESTOWN, RI MONITORING WELL LOCATIONS
1. ECOLOGY AND ENVIRONMENT, INC. AND
2. US ARMY CORPS OF ENGINEERS, OMAHA DISTRICT, OMAHA, NEBRASKA.

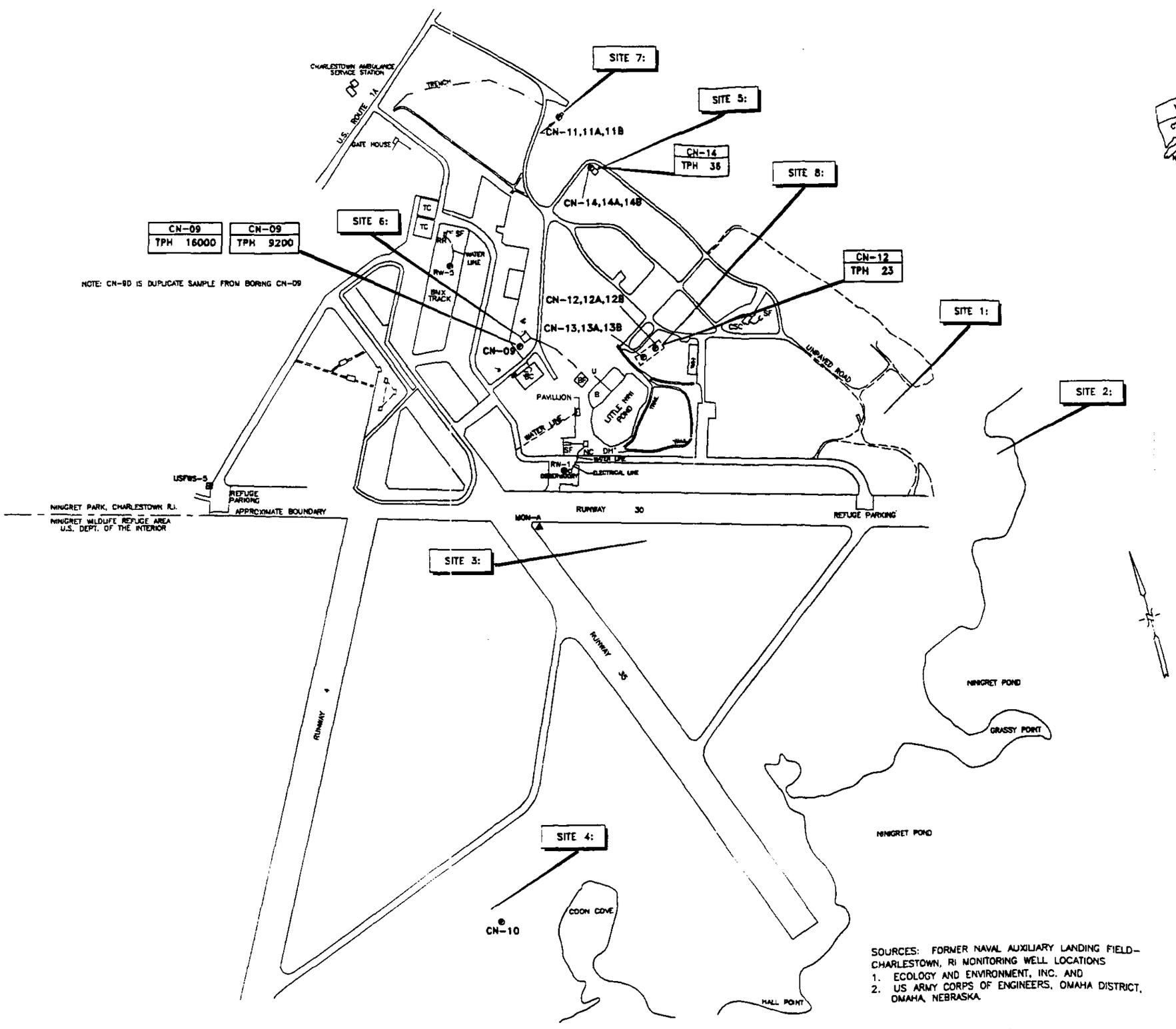
FIGURE 4-5
DISTRIBUTION OF DETECTED TOTAL PETROLEUM HYDROCARBON (TPH)-GROUNDWATER
FORMER NAVAL AUXILIARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

INTERNATIONAL TECHNOLOGY CORPORATION

31313B10 05/07/93 1:11pm T. M.

DRAWN BY	E.K.W.	10/18/93	CHECKED BY	APPROVED BY	DRAWING NUMBER	301313-B9



SOURCES: FORMER NAVAL AUXILIARY LANDING FIELD-CHARLESTOWN, RI MONITORING WELL LOCATIONS
1. ECOLOGY AND ENVIRONMENT, INC. AND
2. US ARMY CORPS OF ENGINEERS, OMAHA DISTRICT, OMAHA, NEBRASKA.

FIGURE 4-4
SUMMARY OF DETECTED TOTAL PETROLEUM HYDROCARBON (TPH)-SOIL
FORMER NAVAL AUXILIARY LANDING FIELD
CHARLESTOWN, RHODE ISLAND

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

INTERNATIONAL TECHNOLOGY CORPORATION

10131:309 10/18/93 11:12am J.R.D.

DRAWN BY	E.K.W./J.R.D.	CHECKED BY		10/18/93	DRAWING NUMBER	301313-A1
	10/18/93	APPROVED BY		10/18/93		

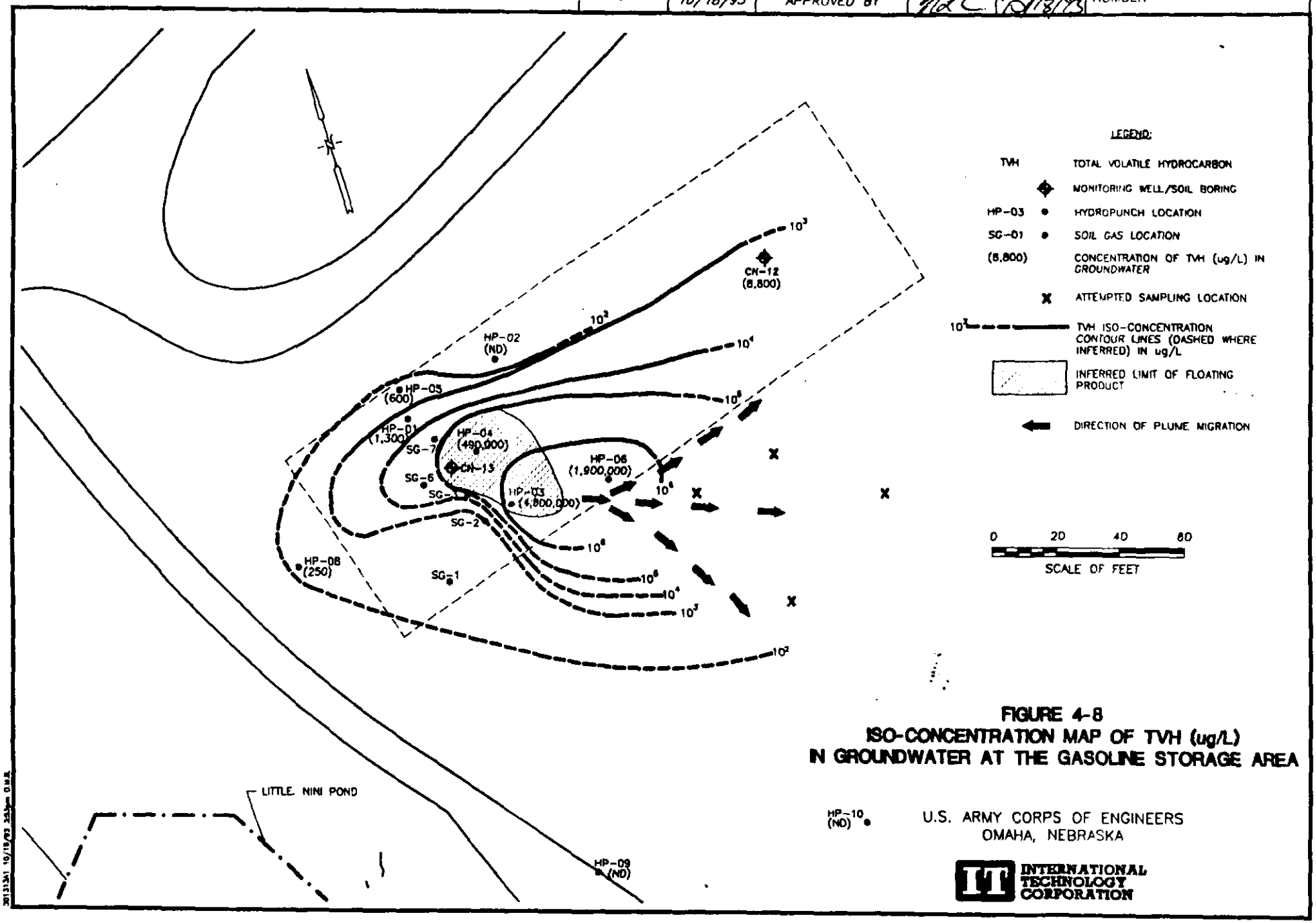


FIGURE 4-8
ISO-CONCENTRATION MAP OF TVH (ug/L)
IN GROUNDWATER AT THE GASOLINE STORAGE AREA

HP-10 (ND)

U.S. ARMY CORPS OF ENGINEERS
OMAHA, NEBRASKA

INTERNATIONAL TECHNOLOGY CORPORATION

HTW DRILLING LOG

FILE:CN121

HOLE NO. CN 12

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: International Technology Corporation	2. DRILLING SUBCONTRACTOR: New England Boring Contractors of CT, Inc.
3. PROJECT: Former Naval Auxiliary Landing Field (NALF)	4. LOCATION: Ninigret Park/Wildlife Refuge, Charlestown Rhode Island
5. NAME OF DRILLER: Trent Roe / Gilbert Wishart	6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile Drill B-53
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb hammer/30 in/60 blows; 6 5/8 in ID hollow stem auger; 1 3/8in OD stainless steel splitspoon (all analytical samples); 1 3/8in OD carbon steel split spoon (for logging only)	8. HOLE LOCATION: Tank Farm
	9. SURFACE ELEVATION: 21.2 ft (MSL)
	10. DATE STARTED: Tues 1/15/91 — 11. DATE COMPLETED: Tues 1/15/91
12. OVERBURDEN THICKNESS: BEDROCK NOT ENCOUNTERED	15. DEPTH GROUNDWATER ENCOUNTERED: GROUNDWATER NOT ENCOUNTERED
13. DEPTH DRILLED INTO ROCK: BEDROCK NOT ENCOUNTERED	16. DEPTH TO WATER AND ELASPED TIME AFTER DRILLING COMPLETED: GROUNDWATER NOT ENCOUNTERED
14. TOTAL DEPTH OF HOLE: 6.8 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): GROUNDWATER NOT ENCOUNTERED

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			NONE

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
	2-4 ft	COMPOSITE	TOT.PET.HYDROC COMPOSITE	BASE/NEUTRAL COMPOSITE	PESTICIDE/PCB COMPOSITE	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
AUGER REFUSAL AT 6.8 ft	GROUT TO SURFACE			John T. Dodge

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	DARK BROWN SILT (ML) AND COARSE SAND (10%), GLACIAL	HNU CALIBRATION HNU No.41656 45 / 54 HNU No.42939 47 / 54 0 HEADSPACE TEST (HST) 0-2 ft 11 ppm	N/A	COMPOSITE SAMPLE INTERVAL 0-6.8 ft SAMPLE No. 136392	1 10 11 15	SAMPLE RECOVERY (R) R=0.5 ft BREATHING ZONE (BZ) BZ=0 DRILL CUTTINGS (DC) DC=0
	2 3	DARK BROWN COARSE SAND (SM) AND SILT (10%), SUBANGULAR GRAVEL 1-2 in (5%), TRACE CLAY, GLACIAL	0 HST 2-4 ft 130 ppm		ANALYTICAL VOLATILE ORGANIC COMPOUND SAMPLE INTERVAL SAMPLE No. 136494	10 13 11 10	R=1.7 ft BZ=0
	4	DARK GRAY-BROWN SILT (ML) COARSE SAND (10%), ANGULAR 1-8 in GRAVEL (5%), GLACIAL	8 ppm HST 4-6 ft 50 ppm			12 11	R=1.5 ft BZ=0 DC=0

HTW DRILLING LOG

FILE:CN122

HOLE NO. CN-12

SHEET 2 OF 2 SHEETS

PROJECT: Former Naval Auxiliary Landing Field (NALF)

INSPECTOR: JOHN DODGE

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		DARK GREY-BROWN SILT (ML) COARSE SAND (10%), ANGULAR 1-8 in GRAVEL (5%), GLACIAL				10 10	BZ=0 DC=0
	6	DARK GRAY BROWN SILT (SM) COARSE SAND (10%), GRAVEL 1-8 in (5%), TRACE CLAY	0 HST 33 ppm			12 60/3	R=0.75 ft STRONG AUGER CHATTER START CN-12A
	7	AUGER AND SPOON REFUSAL AT 6.8 ft POSSIBLE CONCRETE TANK FOOTINGS POSSIBLE BOULDER SUBSURFACE MATERIAL NOT DETERMINED DATA NOT AVAILABLE					

HTW DRILLING LOG

FILE:CN12A

HOLE NO. CN 12A
SHEET 1 OF 1 SHEETS

1. COMPANY NAME: International Technology Corporation	2. DRILLING SUBCONTRACTOR: New England Boring Contractors of CT, Inc.
3. PROJECT: Former Naval Auxiliary Landing Field (NALF)	4. LOCATION: Ninigret Park/Wildlife Refuge, Charlestown, RI
5. NAME OF DRILLER: Trent Roe / William Strickland	6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile Drill B-53
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4 in iD solid stem auger	8. HOLE LOCATION: CN-12A IS LOCATED 8.0 ft NORTHEAST OF CN-12
	9. SURFACE ELEVATION: 21.2 ft (MSL)
	10. DATE STARTED: Tues 1/15/91 — 11. DATE COMPLETED: Tues 1/15/91
12. OVERBURDEN THICKNESS: BEDROCK NOT ENCOUNTERED	15. DEPTH GROUNDWATER ENCOUNTERED: GROUNDWATER NOT ENCOUNTERED
13. DEPTH DRILLED INTO ROCK: BEDROCK NOT ENCOUNTERED	16. DEPTH TO WATER AND ELASPED TIME AFTER DRILLING COMPLETED: GROUNDWATER NOT ENCOUNTERED
14. TOTAL DEPTH OF HOLE: 4.7 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): GROUNDWATER NOT ENCOUNTERED

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			NONE

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
NONE						N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	HOLE CAVE-IN			John T. Dodge

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SEE LOG OF CN-12, CN-12B FOR CLASSIFICATIONS TO 23.5 ft		N/A	N/A	N/A	OIL ODOR BREATHING ZONE (BZ) BZ=0
	9	BORING CN-12A IS DIRECT SOLID STEM AUGER PROBE TO REFUSAL AT 4.7 ft – SUBSURFACE MATERIAL NOT CHARACTERIZED – DATA NOT AVAILABLE POSSIBLE BOULDER POSSIBLE CONCRETE TANK FOOTINGS			NO SAMPLES		DRILL CUTTINGS (DC) DC=0
	10						
	11						
	12						

HTW DRILLING LOG

FILE:CN12B 1

HOLE NO. CN 12B
SHEET 1 OF 3 SHEETS

1. COMPANY NAME: International Technology Corporation	2. DRILLING SUBCONTRACTOR: New England Boring Contractors of CT, Inc.
3. PROJECT: Former Naval Auxiliary Landing Field (NALF)	4. LOCATION: Ninigret Park/Wildlife Refuge, Charlestown, RI
5. NAME OF DRILLER: Trent Roe / Gilbert Wishart	6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile Drill B-53
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb hammer/30 in/60 blows; 6 5/8 in ID hollow stem auger; 1 3/8inID stainless steel splitspoon (all analytical samples); 1 3/8 inOD carbon steel split spoon (for logging only)	8. HOLE LOCATION: TANK FARM CN-12B IS LOCATED 10.9 ft NORTHEAST OF CN-12
	9. SURFACE ELEVATION: 21.2 ft (MSL)
	10. DATE STARTED: Tues 1/15/91 — 11. DATE COMPLETED: Tues 1/15/91
12. OVERBURDEN THICKNESS: BEDROCK NOT ENCOUNTERED	15. DEPTH GROUNDWATER ENCOUNTERED: 15 ft BELOW GRADE 1/15/91
13. DEPTH DRILLED INTO ROCK: BEDROCK NOT ENCOUNTERED	16. DEPTH TO WATER AND ELASPED TIME AFTER DRILLING COMPLETED: 8.50 ft MSL (12.7 ft BELOW GRADE) 2/27/91 0820
14. TOTAL DEPTH OF HOLE: 23.5 FT	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			NONE

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
	10-12 ft	COMPOSITE	BASE/NEUTRAL COMPOSITE	TOT.PET.HYDROC. COMPOSITE	PESTICIDE/PCB COMPOSITE	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
AUGER REFUSAL AT 23.5 ft 2 in MONITOR. WELL		2 IN PVC		John T. Dodge

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SEE LOG OF CN-12 FOR SOIL CLASSIFICATION TO 6.8 ft DARK BROWN-GRAY COARSE SAND (SM) AND SILT (5-10%), LITTLE SUBANGULAR GRAVEL 1-2 in, OIL ODOR	40 ppm HEADSPACE TEST (HST) 8-10 ft 40 ppm	N/A	COMPOSITE SAMPLE INTERVAL 8.0-23.5 ft SAMPLE # 136393	2 2 2 3	OIL ODOR BREATHING ZONE (BZ) BZ=5 SAMPLE RECOVERY (R) R=1 ft DRILL CUTTINGS (DC) DC=0
	8						
	10	DARK BROWN-GRAY COARSE SAND (SM) AND SILT (5-10%), LITTLE SUBANGULAR GRAVEL 1-2 in, OIL ODOR	130 ppm HST 10-12 ft 70 ppm		ANALYTICAL VOLATILE ORGANIC COMPOUND SAMPLE INTERVAL SAMPLE # 136395	5 5 5 5	R=.7 ft OIL ODOR BZ=3
	11						
	12					3 4	DC=65 R=0

HTW DRILLING LOG

HOLE NO. CN-12B
FILE:CN12B2
SHEET 2 OF 3 SHEETS

PROJECT: Former Naval Auxiliary Landing Field (NALF)
INSPECTOR: JOHN DODGE

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						3 2	
	14.0	GREY BROWN COARSE SAND (SP) LITTLE 1-2 in GRAVEL (5-10%) LITTLE SILT (5-10%), MOIST. OIL ODOR APPARENT	40.0 HST 14-16 ft 32 ppm			1 0 1 3	R=1.25ft BZ=2 OIL ODOR 15.5 ft
	16.0 17.0					1 1 60/1	STRONG AUGER CHATTER R=0 SPOON TIP WET
	18.0 19.0	GREY CLAYEY GRAVEL (GP), WITH 5% SILT, DAMP - WET ORANGE BROWN COARSE SAND (SP) (DECOMPOSED FELDSPAR CRYSTALS) WITH SILT (5%)	12.0 HST 18-20 ft 5.8 ppm			18 31 19 23	R=1.7ft STRONG AUGER CHATTER NO ODOR
	20.0 21.0	ORANGE BROWN COARSE SAND (SP) (DECOMPOSED FELDSPAR CRYSTALS) WITH SILT (5%), INTO COARSE GRANITIC SAND (SP), LITTLE GRAVEL (5%)	1.5 HST 20-22 ft 6.5 ppm			23 14 15 34	SAMPLE SATURATED R=1.7ft

HTW DRILLING LOG

FILE:CN1283

HOLE NO. CN-12B

SHEET 3 OF 3 SHEETS

PROJECT: Former Naval Auxiliary Landing Field (NALF)

INSPECTOR: JOHN DODGE

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		MEDIUM GRANITIC SAND (SM), 10% FINE WITH SILT (10%), INTO WET COARSE SAND (SP) WITH LITTLE GRANITIC GRAVEL (0.5-1 in QUARTZ, FELSPAR CRYSTALS)	2	N/A		45 60/4	START CARBON STEEL SPOONS 3 BAGS No. 1 SAND
	23						
		AUGER AND SPOON REFUSAL AT 23.5 ft POSSIBLE BOULDER POSSIBLE BEDROCK MATERIAL NOT CHARACTERIZED DATA NOT AVAILABLE END OF BORING AT 23.5 ft					4 BAGS SAND BACKFILL 4 BAGS CEMENT GROUT 15 lb BENTONITE POWDER WELL PAD COMPLETED 1-16-91 SEE WELL DESIGN FORM CN-12
	24						

HTW DRILLING LOG

FILE:CN131

HOLE NO. CN 13
SHEET 1 OF 3 SHEETS

1. COMPANY NAME: International Technology Corporation	2. DRILLING SUBCONTRACTOR: New England Boring Contractors of CT, Inc.
3. PROJECT: Former Naval Auxiliary Landing Field (NALF)	4. LOCATION: Ninigret Park/Wildlife Refuge, Charlestown, RI
5. NAME OF DRILLER: Trent Roe / Gilbert Wishart	6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile Drill B-53
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb hammer/30 in/60 blows; 6 5/8 in ID hollow stem auger; 1 3/8inOD stainless steel splitspoon (all analytical samples); 1 3/8in OD carbon steel split spoon (for logging only)	8. HOLE LOCATION: FORMER TANK FARM 9. SURFACE ELEVATION: 21.2 ft (MSL) 10. DATE STARTED: Wed 1/12/91 11. DATE COMPLETED: Wed 1/12/91
12. OVERBURDEN THICKNESS: BEDROCK NOT ENCOUNTERED	15. DEPTH GROUNDWATER ENCOUNTERED: 13.70 ft BELOW GRADE, BELOW FLOATING PRODUCT
13. DEPTH DRILLED INTO ROCK: BEDROCK NOT ENCOUNTERED	16. DEPTH TO WATER AND ELASPED TIME AFTER DRILLING COMPLETED:
14. TOTAL DEPTH OF HOLE: 15.2 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 4.80ft MSL(16.4ft BELOWGRADE) 2/27/91 0825 BELOW PRODUCT

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			NONE

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
	14-16 ft	COMPOSITE	BASE/NEUTRAL COMPOSITE	TOT.PET.HYDROC COMPOSITE	PESTICIDE/PCB COMPOSITE	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
AUGER REFUSAL AT 15.2 ft	GROUT TO SURFACE			John T. Dodge

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	BROWN ORGANIC SILT (ML), 6 in, INTO TAN BROWN COARSE SAND (SM), 25% MEDIUM, WITH TRACE SUBANGULAR GRAVEL (1 in), TRACE CLAY, GLACIAL	12 HEADSPACE TEST (HST) 0-2 ft 11.5 ppm	N/A	COMPOSITE SAMPLE INTERVAL 0-15.2 ft SAMPLE # 136486	2 8 14 12	SAMPLE RECOVERY (R) R=1.5 ft BREATHING ZONE (BZ) BZ=0
	2 3	TAN GRAY-BROWN COARSE SAND (SM) AND SILT (25%), WITH SUBANGULAR 0.5-1 in GRAVEL (5%), TRACE CLAY GLACIAL	9 HST 2-4 ft 20 ppm			8 9 5 4	R=1 ft DRILL CUTTINGS (DC) DC=0
	4	DARK BROWN COARSE SAND (SM) AND SILT (25%), WITH SUBANGULAR 0.5-1 in GRAVEL, GLACIAL	0 HST 4-6 ft 50 ppm			2 2	R=.75 ft

HTW DRILLING LOG

FILE:CN132

HOLE NO. CN-13

SHEET 2 OF 3 SHEETS

PROJECT: Former Naval Auxiliary Landing Field (NALF)

INSPECTOR: JOHN DODGE

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		DARK BROWN COARSE SAND(SM) AND SILT (25%), WITH SUBANGULAR 0.5-1 in GRAVEL, GLACIAL				2 2	
	6					2 3	R = 0 GRAVEL IN SPOON TIP
	7					2 2	
	8					2 3	R = 0 GRAVEL IN SPOON TIP
	9					4 3	
	10	DARK BROWN SILTY COARSE SAND (SM) WITH 0.5-1 in SUBANGULAR GRAVEL	1 HST 10-12 ft 22 ppm			2 1	R=1.3 ft AUGER SMOOTH
	11	TRACE CLAY, GLACIAL				1 1	
	12	DARK BROWN SILTY COARSE SAND (SM) TRACE 0.5 in GRAVEL, TRACE CLAY	0 HST 12-14 ft 32 ppm			1 1	R=0.5 ft
	13					1 2	▼ 13.7

HTW DRILLING LOG

FILE:CN133

HOLE NO. CN13

SHEET 3 OF 3 SHEETS

PROJECT: Former Naval Auxiliary Landing Field (NALF)

INSPECTOR: JOHN DODGE

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		DARK BROWN COARSE SAND (SP) AND TRACE SUBANGULAR GRAVEL LITTLE GREY CLAY (5%)	90 HST 14–16 ft 135 ppm		ANALYTICAL VOLATILE ORGANIC SAMPLE INTERVAL SAMPLE# 136488	1 60/2	OIL ODOR OIL SHEEN R=0.5 ft DC=14
	15	AUGER AND SPOON REFUSAL AT 15.2 ft POSSIBLE BOULDER POSSIBLE CONCRETE TANK FOOTINGS MATERIAL NOT CHARACTERIZED DATA NOT AVAILABLLE					STRONG AUGER CHATTER
	16						GROUT TO SURFACE 7 BAGS CEMENT 30 lb BENTONITE POWDER

HTW DRILLING LOG

FILE:CN13A

HOLE NO. CN 13A
SHEET 1 OF 1 SHEETS

1. COMPANY NAME: International Technology Corporation	2. DRILLING SUBCONTRACTOR: New England Boring Contractors of CT, Inc.
3. PROJECT: Former Naval Auxiliary Landing Field (NALF)	4. LOCATION: Ninigret Park/Wildlife Refuge, Charlestown, RI
5. NAME OF DRILLER: Trent Roe / Gilbert Wishart	6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile Drill B-53
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb hammer/30 in/60 blows; 6 5/8 in ID hollow stem auger; 1 3/8inOD stainless steel splitspoon (all analytical samples); 1 3/8inOD carbon steel split spoon (for logging only)	8. HOLE LOCATION: TANK FARM CN-13A IS LOCATED 8.0 ft NORTHEAST OF CN-13
	9. SURFACE ELEVATION: 21.2 ft (MSL)
	10. DATE STARTED: WED 1/17/91 — 11. DATE COMPLETED: WED 1/17/91
12. OVERBURDEN THICKNESS: BEDROCK NOT ENCOUNTERED	15. DEPTH GROUNDWATER ENCOUNTERED: APPROX. 13.7 ft BELOW GRADE
13. DEPTH DRILLED INTO ROCK: BEDROCK NOT ENCOUNTERED	16. DEPTH TO WATER AND ELASPED TIME AFTER DRILLING COMPLETED:
14. TOTAL DEPTH OF HOLE: 16.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 13.7 ft BELOW GRADE IN CN-13 1/17/91, 7.5 ft MSL

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			NONE

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
NONE						N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
AUGER REFUSAL GROUT TO SURFACE				John J. Dodge

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		DIRECT AUGER TO 15.2 ft SEE LOG OF CN-13 FOR CLASSIFICATION OF SOILS TO 15.2 ft		N/A	NO SAMPLES		
	15	GRAY CLAYEY SUBANGULAR .25-1 in GRAVEL (GM) WITH SILT (5%) AND MEDIUM SAND (5%), GLACIAL				60/4	R=0.3 ft BZ=0 DC=0 STRONG AUGER CHATTER
	16	AUGER AND SPOON REFUSAL AT 16.0 ft POSSIBLE BOULDER POSSIBLE CONCRETE TANK FOOTINGS MATERIAL NOT CHARACTERIZED DATA NOT AVAILABLE					GROUT TO SURFACE 5 BAGS CEMENT 25 lb BENTONITE
	17						

HTW DRILLING LOG

FILE:CN13B 1

HOLE NO. CN 13B

SHEET 1 OF 2 SHEETS

1. COMPANY NAME: International Technology Corporation	2. DRILLING SUBCONTRACTOR: New England Boring Contractors of CT, Inc.
3. PROJECT: Former Naval Auxiliary Landing Field (NALF)	4. LOCATION: Ninigret Park/Wildlife Refuge, Charlestown, RI
5. NAME OF DRILLER: Trent Roe / Gilbert Wishart	6. MANUFACTURER'S DESIGNATION OF DRILL: Mobile Drill B-53
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 140 lb hammer/30 in/60 blows; 6 5/8 in ID hollow stem auger; 1 3/8inOD stainless steel splitspoon (all analytical samples); 1 3/8inOD carbon steel split spoon (for logging only)	8. HOLE LOCATION: TANK FARM CN-13B IS LOCATED 15.7 ft NORTHEAST, 13.4 ft NORTHWEST OF CN-13
	9. SURFACE ELEVATION: 21.2 ft (MSL)
	10. DATE STARTED: Fri 1/18/91 — 11. DATE COMPLETED: Fri 1/18/91
12. OVERBURDEN THICKNESS: BEDROCK NOT ENCOUNTERED	15. DEPTH GROUNDWATER ENCOUNTERED: 4.80 ft MSL (16.4 ft BELOW GRADE) 2/27/91 0825
13. DEPTH DRILLED INTO ROCK: BEDROCK NOT ENCOUNTERED	16. DEPTH TO WATER AND ELASPED TIME AFTER DRILLING COMPLETED:
14. TOTAL DEPTH OF HOLE: 24.5 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 13.7 ft BELOW GRADE IN CN-13

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NONE			NONE

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
NONE						N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
HSA REFUSAL AT 24.5 ft		2 in PVC		John T. Dodge

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SEE LOG OF CN-13 AND CN-13B FOR CLASSIFICATION OF SOILS TO 16.0 ft	HEADSPACE TEST (HST)	N/A	NO SAMPLES		BREATHING ZONE (BZ) BZ=0 DRILL CUTTINGS (DC) DC=0
	17	DARK BROWN-GREEN SILTY COARSE SAND (SM), 15% MEDIUM, TRACE CLAY	HST 17-19 ft 70 ppm			6 5	STRONG AUGER CHATTER R=1.25 ft
	18	CONCRETE RUBBLE IN SPOON TIP, WET				8 12	
	19	DARK BROWN-GREEN SILTY COARSE SAND (SM), 10% MEDIUM, TRACE CLAY	HST 19-21 ft 60 ppm			7 9	R=1.25 ft BZ=0 DC=0
	20	CONCRETE RUBBLE IN SPOON TIP, WET				8 4	

HTW DRILLING LOG

FILE:CN13B2

HOLE NO. CN13B

SHEET 2 OF 2 SHEETS

PROJECT Former Naval Auxiliary Landing Field (NALF)

INSPECTOR JOHN DODGE

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		GREY MEDIUM SAND (SM), 25% SILT				6	START CARBON STEEL SPOONS R=1.25 ft
		INTO COARSE PEBBLY SAND (SM) AND	0				
		TRACE CLAYEY GRAVEL (2 in				10	
	22	DECOMPOSED ORANGE FELDSPAR					
		CRYSTALS) WITH 10% SILT, WET				18	BZ=0 DC=0
						19	
	23	TAN COARSE SAND (SM), 20% MEDIUM	0			7	R=1 ft
		WITH SILT (10%) AND TRACE CLAY					
		AND 0.5-1 in GRAVEL, WET				16	STRONG AUGER CHATTER
	24					60/3	
	25	AUGER AND SPOON REFUSAL AT 24.5 ft					SEE WELL DESIGN FORM CN13
		POSSIBLE BOULDER					
		POSSIBLE BEDROCK					
		MATERIAL NOT CHARACTERIZED					3 BAGS CEMENT
		DATA NOT AVAILABLE					15 LBS BENTONITE POWDER
							7 BAGS No.1 SAND

APPENDIX C
SUMMARY OF FIELD SCREENING RESULTS - SOIL SAMPLES
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

Well No.	Depth Interval (ft)		Headspace Test
CN-9	0-2		17
	2.5-4.5		8.5
	5.0-7.0		22
	7.5-9.5		4
	10.0-12.0	(11-13)	12
	12.5-4.5	(13-15)	NS
	15.0-17.0		4
	17.5-19.5		55
CN-10	0-2		101
	2-4		7
	4-6		2
	6-8		NS
	8-10		NS
	10-12		NS
	12-14		5
	14-16		NS
	16-18		NS
	18-20		NS
	24-26		NS
	26-28		NS
	28-30		NS
CN-11	0-2		10
	2-4		NS
	4-6		NS
	6-8		54
	8-10		NS
	10-12		50
	12-14		45
	14-16		58
	16-18		51
CN-11B	20-22		28
	23-25		90
CN-12	0-2		11
	2-4		130
	4-6		50
	6-8		38

NS = Not Sampled

APPENDIX C (Continued)
SUMMARY OF FIELD SCREENING RESULTS - SOIL SAMPLES
FORMER NALF PHASE I RI/FS
CHARLESTOWN, RHODE ISLAND

Well No.	Depth Interval (ft)	Headspace Test
CN-12B	8-10	54
	10-12	70
	12-14	NS
	14-16	32
	16-18	NS
	18-20	5.8
	20-22	6.5
CN-13	0-2	11.5
	2-4	20.0
	4-6	50.0
	6-8	NS
	8-10	NS
	10-12	22.0
	12-14	32.0
	14-16	135
CN-13B	17-19	70
	19-21	60
	21-23	NS
	23-25	NS
CN-14	0-2	0
	2-4	1
	4-6	35
	6-8	4
	8-10	4.5
	10-12	2.5
	12-14	1.5
	14-16	6.5
	16-18	0.5
	18-20	0
CN-14B	20-22	NS
	22-24	NS
	24-26	NS
	26-28	NS

NS = Not Sampled

APPENDIX B

BORING, MICROWELL, AND MONITOR WELL LOGS

WESTON MANAGERS DESIGNERS/CONSULTANTS

TEST BORING LOG

BORING NO. SB/WP01

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental RIG: GEO PROBE	ELEVATION (ground)

GROUNDWATER					CAS.	SAMP.	CORE	TUBE	
DATE	TIME	WATER ELEVATION	DATUM	TYPE		MACRO			DATE STARTED 10/12/98
10/13/98		TOC		DIA.		2"			DATE FINISHED 10/13/98
				WT.					DRILLER P. Hatfield
				FALL					INSPECTOR V. DelloRusso

WELL CONSTRUCTION

Well Construction

Stickup: approx. 2.1'
Borehole TD=22'
Well TD: 19.25'

PVC: 1" dia.

Screen: 10-slot

Top/Bottom screen 9.25'-19.25'

Borehole backfill w/soil and, bentonite chip after after sampling and PVC removal

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0	1	2.0	NA	Med. yellow brown silty sand (SM) with rootlets and trace gravel. Slight fe-stain w/no odor, moist. Probable fill.	OVM=PID headspace on soil OVM=0.0 at 0-2.0'
5	2	2.3		Med. yellow brown well graded sand (SW) with trace gravel. Probably fill with no petroleum odor or staining. Moist, loose.	OVM=0.0 at 4'-6.3'
10	3	3.3		Pale yellow brown well graded sand (SW) with trace gravel. Possible fill with no petroleum odor or staining. Moist.	OVM=0.0 at 8'-11.3'
15	4	3.2		12'-14.3' Med. yellow brown well graded sand (SW) w/trace gravel. Possible fill with strong petroleum odor at 14.3 ft. BGS. No odor or stain. Probable fill. 14.3'-15.2' Olive gray well graded sand (SW) with trace gravel. Stained olive gray w/strong petroleum odor and saturated at 14.3'. Product and sheen on sample. Probable natural soil.	OVM=0.3ppm at 12'-14.3' Soil analytical sample collected for VOCs, TPH, SPLP lead, total lead, MC sample SB-S001=1098-12/13 AT 1050 OVM=652ppm at 14.3'-15.2' Soil analytical sample collected for VOC, TPH, SVOC, SPLP lead, TL lead Duplicate and QA sample collected for VOC only. S001-1098-14.3/15.2 S101-1098-14.3/15.2 S001-1098-14.3/15.2-QA
	5	3.2		Olive gray well graded sand (SW) with trace gravel. Saturated soil. Petroleum stained gray with petroleum odor.	
20	6	2.0		Olive gray, well graded sand (SW) with trace gravel. Saturated. Moderate petroleum odor Petroleum stained No product or sheen. Borehole TD = 22'	OVM=113ppm at 16'-18' OVM=2.0 at 18'-19.5'
25					
30					

FILE NAME: G:\DES\DWG\ACOE\CHARLESTOWN\LOGS\WP01.DWG (PLOT 1=6)

WESTON MANAGERS DESIGNERS/CONSULTANTS

TEST BORING LOG
BORING NO. SB\WP02

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental	RIG: GEO PROBE
ELEVATION (ground)	
DATE STARTED 10/12/98	
DATE FINISHED 10/12/98	
DRILLER P. Hatfield	
INSPECTOR V. DelloRusso	

GROUNDWATER					CAS.	SAMP.	CORE	TUBE
DATE	TIME	WATER ELEVATION	DATUM	TYPE		MACRO		
10/13/98		14.78'	TOC	DIA.		2"		
				WT.				
				FALL				

WELL CONSTRUCTION

Well Construction

Stickup: approx. 1.24'

Borehole TD=14'

Top/Bottom screen 9'-14'

PVC: 1" dia.

Screen: 10-slot

Casing sch. 40 PVC

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0			NA		
	1	2.7		Dk. brown to yellow brown well graded sand (SW) w/trace organics and gravel. Moist, loose soil w/slight petroleum odor in tip of sample at 2.7'. Fill.	OVM=PID headspace on soil OVM=0.3ppm at 0-2.7'
5	2	2.0		Dk. brown well graded sand (SW), with trace organics and gravel. Moist, soft soil, with a slight petroleum odor. No staining present. Dark brown soil below 3.5' BGS. Fill. Dk. brown well graded sand with silt (SW-SM). Predominantly fine sand with trace gravel and organics. Slight petroleum odor with no stain. Glass fragments present. Moist, soft.	OVM=9.0ppm at 4'-6' OVM=12.0ppm at 8'-9.6' Soil analytical sample collected for VOCs, TPH, SPLP, Pb, moisture content, sample ID: S002-1098-8'/9.6' at 1250
10	3	1.6		12'=12.7' Dk. brown well graded sand with silt (SW-SM). Predominantly fine sand w/trace organics and gravel. Slight petroleum odor. Saturated below 12.7' BGS.	OVM=244ppm at 12'-12.7' OVM=571ppm at 12.7'-13.6'
	4	1.6		Below 12.7': Olive gray silty sand (SM). Saturated w/trace gravel. Predominantly fine sand. Fill. Strong petroleum odor. No product. Slight sheen on sample. Trace black staining at 12.7'. Refusal at 14' BGS. Borehole TD = 14'	Concrete pad encountered at 14' BGS. Soil analytical sample collected for VOCs, TPH, SVOC, SPLP lead, TL lead moisture content, sample ID: S002-1098-12.7'/13.6'
15					
20					
25					
30					

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\LOGS\WP02.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. SB\WP03

PROJECT: CHARLESTOWN RI. SITE 8	**SHEET NO.** 1 **OF** 1
CLIENT: CENAE	**JOB NO.** 10971-028-001
DRILLING CONTRACTOR: ADH Environmental **RIG:** GEO PROBE	**ELEVATION (ground)**
	DATE STARTED 10/12/98
	DATE FINISHED 10/12/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM
10/13/98		14.78'	TOC

	CAS.	SAMP.	CORE	TUBE
TYPE		MACRO		
DIA.		2"		
WT.				
FALL				

WELL CONSTRUCTION

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0			NA	*Med. yellow brown well graded sand w/gravel* (SW). Predominantly med. to fine sand. Moist fill with an earthy odor and no staining.	OVM=PID *headspace on soil*
	1	2.0			OVM=0.0ppm at 0–2'
5	2	0.8		Dark brown well–graded sand w/gravel (SW). Predominantly fine sand w/trace silt. Fill with no odor or stain. Moist, poorly sorted, soft.	OVM=0.0ppm *at* 4'–4.8'
10	3	1.8		Med. yellow brown silty sand (SM) w/trace gravel. Predominantly fine sand. At 9.2' BGS material becomes wet and dark brown with a slight petroleum odor.	OVM=1.5ppm at 8'–9.8' Soil analytical sample collected for VOC, TPH, Pb, and moisture content, sample *ID: S003–1098–8/9*
	4	2		Olive gray silty sand (SM) w/trace gravel. Predominantly med. to fine sand with a *moderate petroleum odor. Fill. Saturated below* 12.3'. Sheen on soil at 13.5'–14'. No sheen above 13.5'. Borehole TD = 14'.	OVM=502ppm at 12'–14' Concrete pad encountered at 14' BGS. Refusal.
15					Soil analytical sample collected for VOC, TPH, SVOC, SPLP lead, TL lead Sample ID: S003–1098–12.5/14 at 1345 Duplicate and QA samples (except VOC) S103–1098–12.5/14 S103–1098–12.5/14–QA
20					
25					
30					

Well Construction

Stickup: approx. 0.88'
Borehole TD=14'

PVC: 1" dia.

Screen: 10–slot

Casing:

TD=14'

Top/Bottom screen 9'/14'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\LOGS\WP03.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. SB\WP04

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental	RIG: GEO PROBE
	ELEVATION (ground)
	DATE STARTED 10/12/98
	DATE FINISHED 10/12/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM
10/13/98		14.20'	TOC

	CAS.	SAMP.	CORE	TUBE
TYPE		MACRO		
DIA.		2"		
WT.				
FALL				

WELL CONSTRUCTION

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0			NA		
	1	2.3		Dk. brown well graded sand w/silt (SW-SM). Fill composed of predominantly moist fine to med. sand w/no odor or stain. Trace clay. Soft.	OVM=PID headspace on soil OVM=0.9ppm at 0-2.3' OVM=1.5ppm at 4'-6.3'
5	2	2.3		Dk. brown well graded sand w/silt and trace gravel (SW-SM). Moist fill predominantly fine to medium sand. No odor or stain.	Water permeability sample S004-1098-5.5/6.3 at 1410 Air permeability sample S004-1098-4.7/5.5 at at 1410
10	3	2.1		Dk. brown well graded sand w/silt (SW-SM) with trace clay and gravel. Moist to wet fill predominately fine to medium sand. Wet below 9.8' BGS with a slight petroleum odor. no staining.	OVM=3.3ppm at 8'-10.1' Soil analytical sample collected for VOC, TPH, TL lead and moisture content at 8'-10'. sample ID: S004-1098-8/10 at 1420.
	4	1.5		Dark olive gray silty sand (SM). Fill. Saturated below 12.3' BGS and olive gray. No sheen. Moderate petroleum odor. Borhole TD = 14'	Unsaturated grain sample collected: S004-1098-9/10 at 1420. OVM=100ppm at 12'-13.5' Soil analytical sample collected for VOC, TPH, TL lead, SVOC, and moisture content collected at 12.3'-13.3' BGS. Sample ID: S004-1098-12.3'-13.3' at 1440. Saturated grain size sample collected at 12'-13'. S004-1098-12/13 at 1440. Refusal at 14' on concrete.
15					
20					
25					
30					

Well Construction

Stickup: approx. 0.69'
Borehole TD=14'

Top/Bottom screen 9'/14'

Screen: 1"ø PVC 10-slot

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\LOGS\WP04.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. SB\WP05

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental	RIG: GEO PROBE
	ELEVATION (ground)
	DATE STARTED 10/13/98
	DATE FINISHED 10/13/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER						CAS.	SAMP.	CORE	TUBE
DATE	TIME	WATER ELEVATION	DATUM		TYPE			MACRO	
10/13/98		14.80'	Ground Surface		DIA.			2"	
					WT.				
					FALL				

WELL CONSTRUCTION

10 slot sch 40 1" dia. PVC

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0	1	3.1	NA	Med. yellow brown silty sand (SM). Natural material, moist, firm, no odor. Material is is composed predominantly of fine to medium sand. Trace medium and fine gravel present.	OVM=PID headspace on soil OVM=0.0ppm at 0-3.1'
5	2	3.2		Med. yellow brown silty sand (SM). Natural, moist. Predominantly fine to med. sand with silt and trace gravel. No odor or staining.	OVM=0.0ppm at 4'-7.2'
10	3	3.0		Med. yellow brown silty sand w/gravel (SM). Natural, moist, firm. Predominantly fine to med. sand with silt and gravel. No odor or stain. Cobbles.	OVM=0.0ppm at 8'-11' Water permeability sample S005-1098-9.5/11 at 925 Air permeability sample S005-1098-8/9.5 at 925
15	4	4.0		12-14.3: Pale yellow brown silty sand (SW). Saturated below 13.3' BGS. Petroleum odor. No stain. 14.3'-16' Pale gray silty sand (SM). Predominantly med. to fine sand. Strong Petroleum odor. No sheen or product. No gravel below water table. Silty sand lenses up to 4" thick below 15' BGS.	OVM=0.0ppm at 12'-13.3' OVM=49ppm at 13.3'-14.3' OVM=567ppm 14.3'-16'
20	5	3.0		Pale gray well-graded sand (SW). Saturated. Predominantly med. sand. Sheen on sloughed material from previous interval. Strong petroleum odor. Borehole TD = 20'	Unsaturated grain size sample S005-1098-12.5/13 at 940. Saturated grain size sample S005-1098-14/15 at 950 Soil analytical samples collected for VOC, TPH, Tl lead, and MC: S005-1098-15/16 at 945 OVM=548ppm at 16'-19'
25					
30					

Well Construction

Approx. stickup : 1.31'

1" dia. PVC Sch. 40

Borehole TD: 20'

Top/Bottom screen 6'/16'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

TEST BORING LOG

BORING NO. SB\SB06

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental	RIG: GEO PROBE
	ELEVATION (ground)
	DATE STARTED 10/12/98
	DATE FINISHED 10/12/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM

	CAS.	SAMP.	CORE	TUBE
TYPE		MACRO		
DIA.		2"		
WT.				
FALL				

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
No microwell installed. Microwell installed in boring SB-06A	0	1	2.5	NA	Med. yellow brown well-graded sand w/silt and gravel (SW-SM). Moist, loose fill, predominantly fine to med. sand with no odor or stain.	OVM=PID headspace on soil OVM=0.0ppm at 0-2.5'
	5	2	3.3		Pale yellow brown silty sand (SM) with trace gravel. Probably natural material. Moist, firm Predominantly medium sand. No odor or stain. Fe-stained.	OVM=0.0ppm at 4'-7.3'
	10	3	3.6		Pale yellow to rusty brown silty sand w/gravel (SM). Natural, moist, fine to medium sand Iron-stained above 9' BGS. No odor or petroleum stain. Becoming dense below 11'.	OVM=0.0ppm at 8'-11.6'
		4	2.0		Med. yellow brown silty sand w/gravel (SM). Natural, wet, fine to medium sand. Refusal at 14' BGS on boulder, possibly dense glacial till. No odor or stain. Borehole TD = 14'	OVM=0.0ppm at 12'-14' Soil analytical sample collected for VOC, TPH, and TL lead, MC. S006-1098-13.5/14
	15					
	20					
	25					
	30					

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\LOGS\WP06.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO SB/WP06A

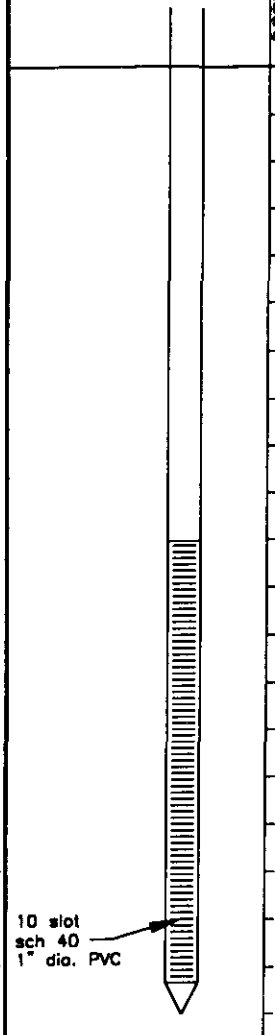
PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental — RIG: GEO PROBE	ELEVATION (ground)
	DATE STARTED 10/12/98
	DATE FINISHED 10/12/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM
10/13/98		14.98"	TOC

	CAS.	SAMP.	CORE	TUBE
TYPE		MACRO		
DIA.		2"		
WT.				
FALL				

WELL CONSTRUCTION



Well Construction

Stickup: approx. 0.32'

Borehole TD=19.8'

Top/Bottom screen 10'/20'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0			NA		OVM=PID headspace on soil
	1	2.5		Med. yellow brown well-graded sand w/gravel (SW). Predominantly moist, soft med. sand. Top 8" is organic rich dark brown in color. No odor or stain. Probable fill.	OVM=0.0ppm at 0-2.5'
5	2	3.0		Pale gray to rusty orange silty sand (SM). Natural, moist, firm, predominantly fine sand and silt. Laminated silty sand w/fe-stained lenses.	OVM=0.0ppm at 4'-7'
10	3	3.0		Pale yellow brown to rusty silty sand (SM) with trace gravel. Natural, moist, soft, predominantly up of fine sand. Well-sorted silty fine sand layers to 6" thick interbedded w/poorly sorted sand and gravel layers.	OVM=0.0ppm at 8'-11'
15	4	3.8		Medium yellow brown to gray brown silty sand (SM). Wet, firm, predominantly fine sand and silt with trace gravel. Wet below 13.5'. Slightly cohesive.	OVM=0.0ppm at 12'-15.8'
	5	3.25		Olive gray brown silty sand (SM). Natural saturated, predominantly fine sand and silt with trace gravel. Saturated below 16.25' BGS. No odor or stain. Cohesive soil below 17.7'. Becomes siltier below 17.7' BGS, and more compact.	OVM=0.0ppm at 16'-19.25' Saturated at 16.25'
20				Borehole TD = 20'	
25					
30					

FILE NAME: u:\DES\ohio\ACOE\charlis\NW\boring\WP06A.ohio (PLOT 1=b)

TEST BORING LOG
BORING NO. SB/WP07

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental	RIG: GEO PROBE
	ELEVATION (ground)
	DATE STARTED 10/12/98
	DATE FINISHED 10/12/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER					CAS.	SAMP.	CORE	TUBE
DATE	TIME	WATER ELEVATION	DATUM	TYPE		MACRO		
10/13/98		17.12'	TOC	DIA.		2"		
				WT.				
				FALL				

WELL CONSTRUCTION

Well Construction

Approx. stickup: 3.36'

Borehole TD: 16.5'

Top/Bottom screen 11'-16'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0			NA	0-1.6: Med. yellow brown well-graded sand with gravel (SW). Fill. Contact at 1.6'. 1.6'-3': Pale olive gray silty sand w/gravel (SM). Fill. Predominantly fine to med. sand, moist, soft. Moderate petroleum odor.	OVM=PID headspace on soil
	1	3.0			OVM=118ppm at 0-3'
				4'-4.5': Olive gray silty sand (SM) w/moderate petroleum odor.	OVM=189ppm at 4'-6.8'
5	2	2.6		5.5'-6.8': Medium brown silty sand (SM) w/trace gravel. Soft, moist, fill with no odor.	Soil analytial sample Sample ID: S007-1098-4.5/5.5 at 1730 Collected at 4.5'-5.5' for VOC, TPH, moisture content and TL lead.
	3	1.8		Olive gray silty sand w/gravel (SM). Probable fill. fine to med. sand. Wet below 8.8' BGS and becomes fine silty sand. Becomes dark olive gray below 9.4' BGS, with highest ovm readings. Moderate petroleum odor.	OVM=4ppm at 8'-9.4' OVM=124ppm at 9.4'-9.8'
10					
	4	1.6		Olive gray silty sand w/gravel (SM). Probable fill. Wet with saturated lenses below 12.2' BGS. No sheen or product. Moderate petroleum odor throughout.	OVM=102ppm at 12'-13.6'
15				Poor sample. Refusal at 16.5', probable concrete pad. Clayey sand with silt on borehole bottom. Petroleum odor.	OVM=45 ppm at 16'-16.5'
	5	0.5		Borehole TD=16.5'	
20					
25					
30					

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\LOGS\WP07.DWG (PLOT 1=6)

WESTON
MANAGERS DESIGNERS/CONSULTANTS

TEST BORING LOG
BORING NO. SB/WP08

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental RIG: GEO PROBE	ELEVATION (ground)

GROUNDWATER					CAS.	SAMP.	CORE	TUBE	
DATE	TIME	WATER ELEVATION	DATUM	TYPE		MACRO			DATE STARTED 10/13/98
10/13/98	1413	14.99	TOC	DIA.		2"			DATE FINISHED 10/13/98
				WT.					DRILLER P. Hatfield
				FALL					INSPECTOR V. DelloRusso

WELL CONSTRUCTION

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0	1	3.4		Dark brown to med. yellow brown silty sand (SM). Natural material. Moist, firm slightly cohesive with no odor or stain.	OVM=PID headspace on soil OVM=0.0ppm at 0-3.4'
5	2	3.0		Med. yellow well-graded sand w/silt (SW-SM). Natural, moist, and predominantly fine to med. sand. No odor or stain. Few silt lenses. Cobbles.	OVM=0.0ppm at 4'-7' Refusal at 7' BGS. offset 1' and continue below 7' BGS.
	3	1.0		Yellow brown well-graded sand w/silt and gravel (SW-SM). Natural, moist, loose, predominantly fine to medium sand. No odor.	OVM=0.0ppm at 7'-8'
10	4	4.0		Dark brown silty sand (SM). Natural wet, soft predominantly fine sand and silt. Dark brown soil with earthy odor below 9'-11.5' BGS. Very silty with clay, black and gray mottles. 11.5'-12': Pale yellow brown silty sand (SM). Cohesive, nonplastic.	
15	5	4.0		12'-15.5' Med. gray brown silty sand (SM). Saturated below 13.0' BGS. Below 14.5' patchy black-stained silty fine sand. Moderate petroleum odor below 14.5'. 15.5'-16'. Pale gray well-graded sand w/gravel (SW). Saturated with a moderate petroleum odor. Patchy black stain, no sheen or product. *Coarse sand and gravel.* Borehole TD = 16'	OVM=0.0ppm at 8'-12' OVM=0.0ppm at 12'-14.5' OVM=117ppm at 14.5'-15.5' OVM=403ppm at 15.5'-16'
20					
25					
30					

Well Construction

Approx. stickup: 1.35'

Borehole TD: 16'

Top/Bottom screen 6'-16'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\WP08.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. SB/WP09

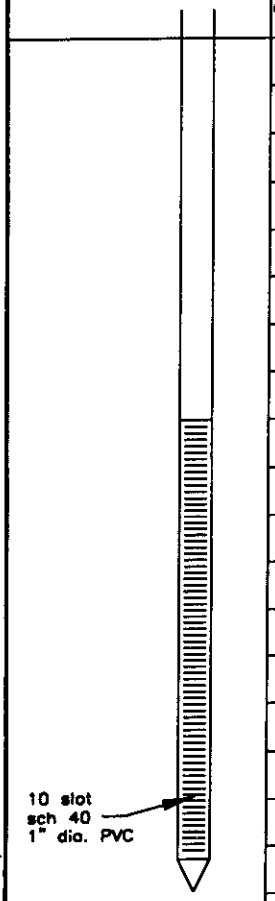
PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental — RIG: GEO PROBE	ELEVATION (ground)
	DATE STARTED 10/13/98
	DATE FINISHED 10/13/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM
10/13/98	1448	13.60'	TOC

	CAS.	SAMP.	CORE	TUBE
TYPE		MACRO		
DIA.		2"		
WT.				
FALL				

WELL CONSTRUCTION



Well Construction

Stickup: 0.47'

Borehole TD: 20'

Top/Bottom screen 8'-18'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0	1	3.5	NA	Med. yellow brown silty sand (SM). Natural material. Moist, firm, predominantly fine to med. sand w/silt. No odor or staining, slightly cohesive.	OVM=PID headspace on soil OVM=0.0ppm at 0-3.5'
5	2	3.0		Dk. yellow brown silty sand (SM). Natural, firm wet, predominantly fine to medium sand and silt. No odor or stain. Silty lenses up to 3" thick, very cohesive. Wet in silt lenses.	OVM=0.0ppm at 4'-7'
10	3	2.75		Yellow brown well-graded sand with silt and gravel (SW-SM). Natural, moist, loose, predominantly medium to fine sand. No odor or stain. Rare silt lenses.	OVM=0.0ppm at 8'-10.75'
15	4	3.3		Pale gray silty sand (SM). Natural, saturated, firm, predominantly medium to fine sand and silt. Saturated below 14' with a very weak petroleum odor. Olive gray below 14.75' Iron stained at 14.5' BGS.	OVM=5ppm at 12'-15.3'
	5	2.5		Yellow brown well-graded sand (SW). Natural, loose, saturated, predominantly coarse to medium sand. Olive gray. Silt lenses present with weak petroleum odor. No stain or sheen. Borehole TD = 20'	OVM=7ppm at 16'-18.5'
20					
25					
30					

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\LOGS\WP09.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. SB/WP10

PROJECT: CHARLESTOWN RI. SITE 8	SHEET NO. 1 OF 1
CLIENT: CENAE	JOB NO. 10971-028-001
DRILLING CONTRACTOR: ADH Environmental	RIG: GEO PROBE
	ELEVATION (ground)
	DATE STARTED 10/13/98
	DATE FINISHED 10/13/98
	DRILLER P. Hatfield
	INSPECTOR V. DelloRusso

GROUNDWATER					CAS.	SAMP.	CORE	TUBE
DATE	TIME	WATER ELEVATION	DATUM	TYPE		MARCO		
10/13/98	1423	16.86'	TOC	DIA.		2'		
				WT.				
				FALL				

WELL CONSTRUCTION

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	REMARKS
0	1	2.5	NA	Med. brown to rust stained silty sand (SM). Natural, moist, firm, with no odor or stain. Silt lenses up to 2" thick interbedded with gravely sand.	OVM=PID headspace on soil OVM=0.0ppm at 0-2.5'
5	2	3.7		Pale gray to rusty orange red silty sand (SM). Natural, moist, soft, predominantly fine to medium sand. Iron stained below 5.3' BGS. Silty sand lens, pale gray from 4.6'-5.2'. No odor or petroleum stain.	OVM=0.0ppm at 4'-7.7'
10	3	3.0		Pale gray silty sand (SM) w/trace clay. Natural, moist, firm, predominantly fine to med. sand and silt. Gray brown, dense, silty sand lens with trace clay from 9.8'-20.2' BGS. and 10.8'-11' BGS No odor or stain.	OVM=0.0ppm at 8'-11'
	4	2.0		Pale olive gray silty sand (SM). Natural, wet, *firm, predominantly fine to medium sand.* Becomes olive gray below 12.5' BGS. probable high water table mark. Weak petroleum odor below 12.5'. No sheen or product observed. Slightly cohesive soil.	OVM=83ppm at 11'-13'
15	5	1.75		Olive gray silty sand w/gravel (SM). Natural, saturated, firm predominantly fine to medium sand. Saturated and pale and olive gray below 14.1' BGS. Strong petroleum odor. Becomes coarse gravelly sand with silt. Patchy sheen on sample.	OVM=415ppm at 13'-14.75'
				Borehole TD = 17'	
20					
25					
30					

Well Construction

Stickup: 3.00"

Borehole TD: 17'

Well dia. 1" PVC

Screen, 10-slot

Top/Bottom screen 7'-17'

Borehole backfill w/soil and bentonite chip after after sampling and PVC removal

FILE NAME: G:\DES\DWG\ACOE\CHRLS\WN\WP10.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. GSA–1

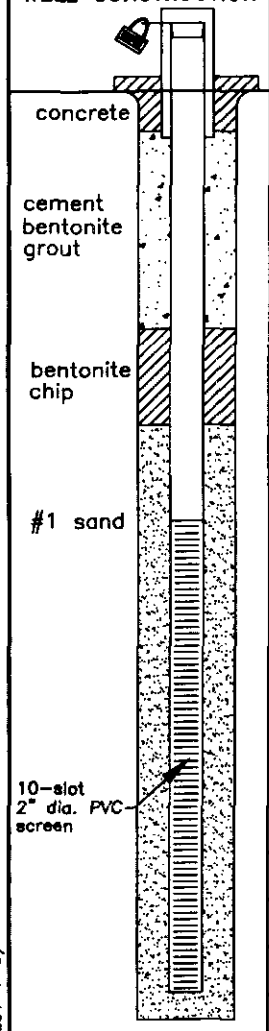
PROJECT: CHARLESTOWN, RI. NALF, SITE 8	**SHEET NO.** 1 **OF** 1
CLIENT: CENAE	**JOB NO.** 10971–028–001
DRILLING CONTRACTOR: New England Boring	**RIG:** Mobile Drill B–61, Truck
	ELEVATION (ground)
	DATE STARTED 11/9/98
	DATE FINISHED 11/9/98
	DRILLER S. Ramsdell
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM

	CAS.	SAMP.	CORE	TUBE
TYPE	HSA	SSS		
DIA.	4.25"	2"		
WT.		140lb		
FALL		30"		

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	
0	1	1.2	2/12, 23/18	Fill: Pale yellow brown well graded sand w/silt (SW–SM) with little gravel. Loose, moist *predominatly fine sand. Organic sand from* 0–0.8'. No odor or stain.	OVM=PID soil headspace OVM=0.0 at 0–1.2'
			Augered		
5	2	0	3/3, 3/2	*Fill: Poor recovery due to gravel and cobbles.* No odor or stain on spoon.	No recovery
			Augered		
10	3	0	6/6, 10/11	Sand w/gravel fill. Poor recovery. Moist, no odor. Augers grinding.	No recovery
			Augered	Bottom of fill above 15'.	
15	4	0.5	14/11, 14/10	Pale gray silty sand (SM) w/little gravel. Soft, saturated. Well sorted fine sand. No odor, stain or sheen.	Water table between 14'–15' OVM=0.0 at 15'–15.5'
			Augered	Auger refusal at 19.5'. Borehole TD=19.5'.	
20					
25					
30					

Well Construction:

Stickup: approx. 2.5'
Borehole TD=19.5'
Well TD 19'

Well screen:
2" dia. sch. 40 PVC
10–slot, 9'–19'

Sand: #1, 7'–19.5'

Seal: Bentonite chips 5'–7'

Grout: Cement/Bentonite 0'–5'

Protective casting: 4" steel

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\GSA–1.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. GSA-2

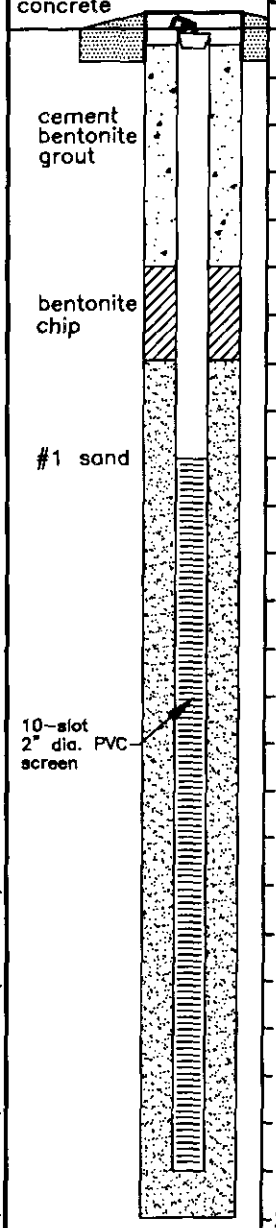
PROJECT: CHARLESTOWN, RI. NALF, SITE 8	**SHEET NO.** 1 **OF** 1
CLIENT: CENAE	**JOB NO.** 10971-028-001
DRILLING CONTRACTOR: New England Boring	**RIG:** Mobile Drill B-61, Truck
	ELEVATION (ground)
	DATE STARTED 11/12/98
	DATE FINISHED 11/12/98
	DRILLER S. Ramsdell
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM

	CAS.	SAMP.	CORE	TUBE
TYPE	HSA	SSS		
DIA.	4.25"	2"		
WT.		140lb		
FALL		30"		

WELL CONSTRUCTION



Well construction:
Stickup: 0.4'
Borehole TD = 25'
Well TD 24'
Well screen:
10-slot, 2"ø 9'-24'
Sand: #1 unimin
Seal: Bentonite/chips 5'-7'
Grout: Cement/Bentonite 0'-5'
Protective casing: 6" Flush

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	
0	1	0.8	2/7	0-0.4" Dark brown organic sand topsoil. Med. yellow brown well graded sand w/silt (SW-SM) w/little gravel, moist, loose, no odor or stain fill.	OVM=PID soil headspace
			21/26		OVM=0.0 at 0-0.8'
			Augered		
5	2	1.1	6/8	Med. yellow brown well graded sand with silt and gravel (SW-SM). Moist, loose. Pieces of old cable 3/8" steel. Fill.	OVM=0.0 at 5'-6.1'
			8/10		
			Augered		
10	3	1.1	10/10	Med. yellow brown well graded sand (SW) with little silt and gravel. Moist, soft. No odor or stain. Possible fill.	OVM=0.0 at 10'-11.1'
			4/3		
			Augered		
15	4	1	4/31	Void encountered at 14'-15', probable bottom of fill. Water table encountered at 14'-15'! Med. gray silty sand (SM) w/little gravel. Predominantly fine sand. Saturated, firm. No odor, stain or product.	OVM=0.0 at 15'-16'
			40/44		
			Augered		
20	5	1	31/19	Med. gray silty sand with gravel (SM), firm, runny sand w/pink granite fragments, no odor or stain.	OVM=2ppm at 20'-21'
			16/29		
			Augered	Pale gray to yellow brown silty sand w/gravel. Firm, no odor or stain.	OVM=3ppm at 23'-23.8'
	6	0.8	76/26		
25			24/19	Borehole TD=25'.	
30					

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\GSA-2.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. GSA-3

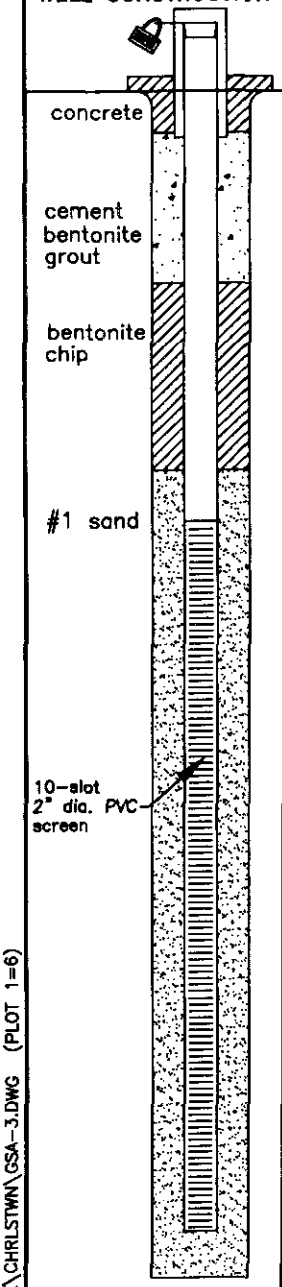
PROJECT: CHARLESTOWN, RI. NALF, SITE 8	**SHEET NO.** 1 **OF** 1
CLIENT: CENAE	**JOB NO.** 10971-028-001
DRILLING CONTRACTOR: New England Boring	**RIG:** Mobile Drill B-61, Truck
ELEVATION (ground)	
DATE STARTED 11/10/98	
DATE FINISHED 11/10/98	
DRILLER S. Ramsdell	
INSPECTOR V. DelloRusso	

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM

	CAS.	SAMP.	CORE	TUBE
TYPE	HSA	SSS		
DIA.	4.25"	2"		
WT.		140lb		
FALL		30"		

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	
0	1	1	5/11	0-0.3" Organic sand topsoil. Med. yellow brown silty sand (SM) w/little gravel. Moist, soft, no odor or stain. Natural, undisturbed.	OVM=PID soil headspace
			15/17		OVM=0.0 at 0-1'
			Augered	Abundant cobbles	
5	2	0	5/4	No recovery	
			4/17		OVM=0.0 at 10'-11'
			Augered		
10	3	1	6/15	Pale yellow brown well graded sand w/gravel (SW), moist, firm. Saturated silt lens at 10'-10.2'. No odor or stain.	
			19/31		
			Augered		
15	4	1	17/13	Med. gray silty sand (SM). Saturated, firm, poorly sorted sand. Moderate petroleum odor, no sheen or stain.	Water table between 14'-15' OVM=369ppm at 15'-16'
			12/16		
			Augered		
20	5	1	15/17	Gray brown to yellow brown silty sand with gravel (SM), poorly sorted, stiff. No odor or stain.	OVM=57ppm at 20'-21'
			18/21		
			Augered	Med. yellow brown well graded sand w/silt (SW-SM), firm, moderately sorted. No odor or stain.	OVM=0.9ppm at 23'-24.2'
	6	1.2	10/13		
			8/9	*Borehole TD=25'.*	
25					
30					

Well construction:
Stickup: 2.5'
Borehole TD = 25'
Well TD 24'
Well screen:
10-slot, 2"ø 9'-24'
Sand: #1 unimin
Seal: Bentonite/chips 4'-8'
Grout: Cement/Bentonite 0'-4'
Protective casting: 4" dia. steel

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\GSA-3.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. GSA-4

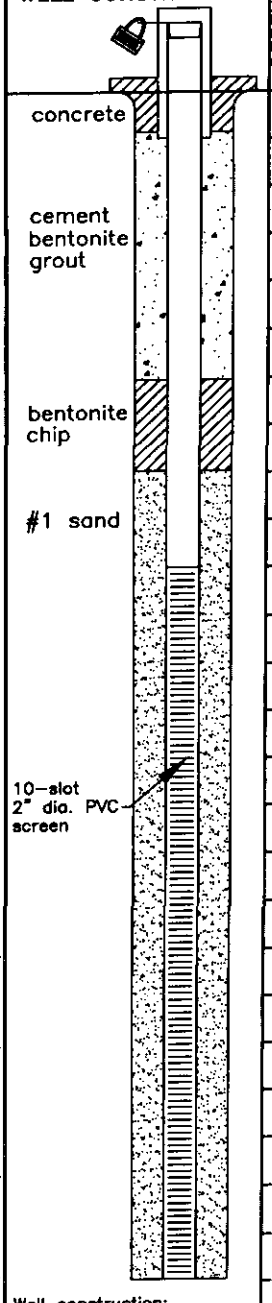
PROJECT: CHARLESTOWN, RI. NALF, SITE 8	**SHEET NO.** 1 **OF** 1
CLIENT: CENAE	**JOB NO.** 10971-028-001
DRILLING CONTRACTOR: New England Boring	**RIG:** Mobile Drill B-61, Truck
	ELEVATION (ground)
	DATE STARTED 11/9/98
	DATE FINISHED 11/9/98
	DRILLER S. Ramsdell
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM

	CAS.	SAMP.	CORE	TUBE
TYPE	HSA	SSS		
DIA.	4.25"	2"		
WT.		140lb		
FALL		30"		

WELL CONSTRUCTION



Well construction:
Stickup: 2.5'
Borehole TD = 25'
Well TD 25'
Well screen:
10-slot, 2"ø 10'-25'
Sand: #1 unimin
Seal: Bentonite/chips 6'-8'
Grout: Cement/Bentonite 0'-4'
Protective casting: 4" dia. steel

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	
0	1	1	5/10	Med. yellow brown silty sand (SM) w/trace gravel. Med. to fine sand. Dry, soft, no odor or stain. Natural, undisturbed soil.	OVM=PID soil headspace
			12/15		OVM=0.0 at 0-1'
			Augered		
5	2	1.3	38/40	Rusty orange brown silty sand w/gravel (SW). Stiff, moist, fe-stained. No odor or stain.	OVM=0.0 at 5'-6.3'
			40/70		
			Augered	Probable till below 8' BGS.	
10	3	1.2	53/78	Pale gray brown silty sand w/gravel (SM). Moist, stiff. No odor or stain. Trace clay. Spoon refusal at 11.75'.	OVM=0.0 at 10'-11.2'
			85/90/0.25		
			Augered		
15	4	1.1	6/12	Med. gray to yellow brown silty sand with gravel (SM), saturated, firm, moderate petroleum odor, sheen on spoon. Black petroleum stain. Contact at 16' with yellow brown gravely sand below.	Water table between 14'-15' OVM=519ppm at 15'-16.1'
			20/26		
			Augered		
20	5	0.5	63/71	Pale yellow silty sand w/gravel (SM). Well sorted fine sand, stiff. Weak petroleum odor. Spoon refusal at 21.5'.	OVM=206ppm at 20'-20.5'
			90/0.5		
			Augered		
	6	1.0	10/13	Granite rock fragment. Spoon refusal.	
			90/0.1	No auger refusal.	
25			Augered	Borehole TD=25'.	
30					

FILE NAME: G:\DES\DWG\ACOE\CHRLSTWN\GSA-4.DWG (PLOT 1=6)

TEST BORING LOG

BORING NO. GSA-5

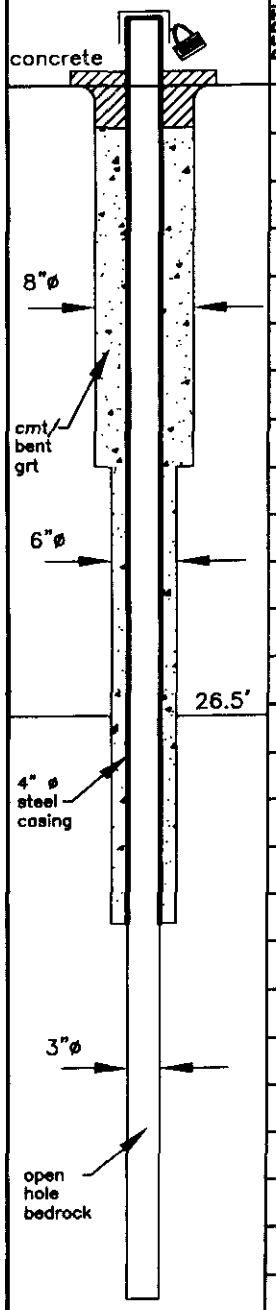
PROJECT: CHARLESTOWN RI. NALF SITE 8	**SHEET NO.** 1 **OF** 1
CLIENT: CENAE	**JOB NO.** 10971-028-001
DRILLING CONTRACTOR: New England Boring	**RIG:** Mobile Drill B-61, Truck
	ELEVATION (ground)
	DATE STARTED 11/10/98
	DATE FINISHED 11/12/98
	DRILLER S. Ramsdell
	INSPECTOR V. DelloRusso

GROUNDWATER

DATE	TIME	WATER ELEVATION	DATUM

	CAS.	SAMP.	CORE	TUBE
TYPE	STEEL	DRT	NX	
DIA.	6"	5 5/8"	3"	
WT.				
FALL				

WELL CONSTRUCTION



Well construction:
Outer casing:
4" steel, 2.5' stickup

Casing: bottom at 35'

Open hole: 35'-51'

Grout: cement/
bentonite 0'-35'

DEPTH (FEET)	SAMPLE NO.	REC. (ft.)	BLOWS PER 6 INCHES	CLASSIFICATION	
0			NA	For overburdened litholigy see log for SB02, SB03 or GSA-1. Augered from ground surface to 16' with no split spoon sampling.	OVM=PID soil or water headspace
10				Dark gray brown silty sand w/gravel. Strong petroleum odor. Saturated. Water table at approx. 15'.	OVM soil=162ppm at 15'
20				8" thick concrete pad encounted at 15.5'. Drive and wash 6" casing and rollerbit from 16' to 35'. Sheen observed on drilling water.	Max OVM soil=474ppm at 15'-16'
26.5'				Top of bedrock at 26.5'	
30				Pink coarse grained quartz-biotite-feldspar granite with white calcite veinlets. Massive with minor fractures to 37'. Bedrock cored below 35'.	Drilling water replaced at 26.5'.
				Lost circulation at 37'-37.5'. Fractured bedrock.	OVM=0.0 on drilling water
40				Pink biotite-quartz-feldspar granite with veinlets of calcite and epidote and trace hematite. Abundant fractures throughout from 30°-75° dips, with max 2" spacing. Good secondary porosity, magnetite phenocrysts up to 1/4" dia. rare. RQD=0. Fresh, unweathered. Fractures are planar, smooth, or stepped with slight fe-staining, rare slickensides.	No return on drilling water below 37'.
				Fault breccia zone at 45.5'-46'. Green, soft altered granite matrix of sericite-epidote and granite fragments.	
50				Pink granite w/planar, smooth, rusty fe-stained fractures, RQD=0.	
				Borehole TD=51'.	
60					

FILE NAME: FILE

APPENDIX C

KATAHDIN ANALYTICAL LABORATORIES, INC., ANALYTICAL DATA PACKAGE FOR SOIL, GROUNDWATER, AND LNAPL SAMPLES

APPENDIX C-1

MONITOR WELL GROUNDWATER SAMPLE DATA

Inter-Office Memorandum

TO:	Vinnie DelloRusso	CC:	John Hagopian
FROM:	Diane Quigley	DATE:	3 February, 1999
PROJECT:	Charlestown, RI	W.O. No.:	10971-036-001-0010-01
SUBJECT:	Data Review of WO-3912		

Samples: M001-1298, M002-1298, M003-1298, M004-1298, M005-1298, M012-1298, M112-1298, M013-1298 and TB-2

Volatile (8260A), lead, ferrous iron, $CaCo_3$, nitrate and sulfate data submitted by Katahdin Analytical Services for the above-listed samples were reviewed. Chain of custodies were reviewed to verify methodologies, sample preservation and to ensure holding times were met.

The following qualifications were made:

- U^1 - Qualify the positive methylene chloride result as undetected due to method blank contamination.
- U^3 - Qualify the positive lead result as undetected in samples M002-1298 and M005-1298 due to prep. blank contamination.
- U^4 - Qualify the positive sec-butylbenzene and n-butylbenzene results in sample M013-1298 as undetected due to method blank contamination.

All qualifications were added to the result pages. Footnotes explaining the qualifications should be presented at the bottom of the analytical result table.

If you have any questions, please call me at x5534. The "Data Review Checklist" is attached.

Katahdin
ANALYTICAL SERVICES

Pages have been replaced in this DV copy by OFC

RECEIVED
JAN 28 1999
...STON, INC.

January 26, 1999

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE:	Katahdin Lab Number:	WO3842
	Project ID:	Charleston, RI Site 8
	Project Manager:	Ms. Lil Pepin
	Sample Receipt Date:	December 3, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Reissued Report of Analytical Results (ROA) for the samples and blanks in the work order mentioned above. These ROA have been corrected to report acetone, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, tetrahydrofuran, methyl tertbutyl ether, vinyl acetate. The reissued pages have been paginated to be inserted into the original report.

The compounds listed were inadvertently omitted from the ROAs submitted in the original report.. We apologize for any inconvenience our error may have caused you.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Maria Crouch
Authorized Signature

01/26/99
Date

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

December 31, 1998

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE: Katahdin Lab Number: WO-3842
Project ID: Charleston RI Site 8
Project Manager: Ms. Lil Pepin
Sample Receipt Date: December 3, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Nara Crouch
Authorized Signature

12/31/98
Date

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

Summary of Report Notes

Report Note	Note Text
B	'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MOO1-1298

Matrix: WATER **SDG Name:** WO3842

Percent Solids: 0.00 **Lab Sample ID:** WO3842-001

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	8.1			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3842-1
Report Date: 12/31/98
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
MOO1-1298	Aqueous	CLIENT	12/02/98	12/03/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	140.	mg/L	1.0	20	E310.1	12/04/98	LT	
Nitrate as N	<0.050	mg/L	1.0	0.050	353.2	12/04/98	CF	
Sulfate	<1.0	mg/L	1.0	1.0	375.4	12/14/98	LT	

* 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.

12/31/98

LJO/baelp(dw)

[illegible] 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) [illegible]31-5[illegible] Fax: (603) 436-3356

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-1
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO1-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	3	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~B6~~ U	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	2	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	~~B1~~ U	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	J0.7	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000005

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-1
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO1-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	25	ug/L	1.0	1	1
M+P-XYLENE	38	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	70	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	8	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	18	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	37	ug/L	1.0	1	1
SEC-BUTYLBENZENE	J0.5	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	J0.6	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000006'

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-1
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO1-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		
1,2-DICHLOROETHANE-D4	96	%	1.0		

Report Notes: B, J

0000006A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MOO3-1298

Matrix: WATER **SDG Name:** WO3842

Percent Solids: 0.00 **Lab Sample ID:** WO3842-002

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	11.8			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3842-2
Report Date: 12/31/98
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
MOO3-1298	Aqueous	CLIENT	12/02/98	12/03/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	40.	mg/L	1.0	20	E310.1	12/04/98	LT	
Nitrate as N	0.11	mg/L	1.0	0.050	353.2	12/04/98	CF	
Sulfate	2.2	mg/L	1.0	1.0	375.4	12/14/98	LT	

* 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.

12/31/98

LJO/baelp(dw)

560 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
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-2
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO3-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~87~~ U'	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000009

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-2
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO3-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	4	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	J0.7	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	J4	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000010

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-2
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO3-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		
1,2-DICHLOROETHANE-D4	104	%	1.0		

Report Notes: B, J

0000010A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** MOO4-1298

Matrix: WATER | **SDG Name:** WO3842

Percent Solids: 0.00 | **Lab Sample ID:** WO3842-003

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	21.3			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3842-3
Report Date: 12/31/98
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
MOO4-1298	Aqueous	CLIENT	12/02/98	12/03/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	23.	mg/L	1.0	20	E310.1	12/04/98	LT	
Nitrate as N	0.25	mg/L	1.0	0.050	353.2	12/04/98	CF	
Sulfate	8.9	mg/L	2.0	1.0	375.4	12/14/98	LT	

* 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.

12/31/98

LJO/baelp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-3
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO4-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~B4~~ U	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000013

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-3
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO4-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	*Result*	*Units*	*DF*	Sample *PQL*	Method *PQL*
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	J3	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000014

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-3
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MOO4-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	107	%	1.0		
TOLUENE-D8	114	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	117	%	1.0		

Report Notes: B, J

0000014A

INORGANIC ANALYSIS DATA SHEET

Lab Name: *Katahdin Analytical Services* **Client Field ID:** MO12-1298

Matrix: WATER **SDG Name:** WO3842

Percent Solids: 0.00 **Lab Sample ID:** WO3842-004

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	4.3	~~B~~	U3	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: ***Clarity After:***

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3842-4
Report Date: 12/31/98
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
MO12-1298	Aqueous	CLIENT	12/02/98	12/03/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	130.	mg/L	1.0	20	E310.1	12/04/98	LT	
Nitrate as N	0.062	mg/L	1.0	0.050	353.2	12/04/98	CF	
Sulfate	1.3	mg/L	1.0	1.0	375.4	12/14/98	LT	

* 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

12/31/98

LJO/baelp(dw)

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) 436-3556

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-4
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MO12-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~87~~ U	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J, E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-4
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MO12-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	14	ug/L	1.0	1	1
M+P-XYLENE	9	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	~~E510~~ 550 *	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	7	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	4	ug/L	1.0	1	1
TERT-BUTYLBENZENE	1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	30	ug/L	1.0	1	1
SEC-BUTYLBENZENE	1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	J3	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J, E

* = result repeated from diluted analysis

0000018

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-4
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MO12-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	113	%	1.0		
TOLUENE-D8	110	%	1.0		
P-BROMOFLUOROBENZENE	109	%	1.0		
1,2-DICHLOROETHANE-D4	114	%	1.0		

Report Notes: B, J, E

0000018A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-4DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MO12-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<10	ug/L	5.0	10	2
CHLOROMETHANE	<10	ug/L	5.0	10	2
VINYL CHLORIDE	<10	ug/L	5.0	10	2
BROMOMETHANE	<10	ug/L	5.0	10	2
CHLOROETHANE	<10	ug/L	5.0	10	2
TRICHLOROFLUOROMETHANE	<10	ug/L	5.0	10	2
1,1-DICHLOROETHENE	<5	ug/L	5.0	5	1
METHYLENE CHLORIDE	B16	ug/L	5.0	5	1
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	5.0	5	1
1,1-DICHLOROETHANE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHENE (CIS)	<5	ug/L	5.0	5	1
2,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1
BROMOCHLOROMETHANE	<5	ug/L	5.0	5	1
CHLOROFORM	<5	ug/L	5.0	5	1
1,1,1-TRICHLOROETHANE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1
1,1-DICHLOROPROPENE	<5	ug/L	5.0	5	1
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1
BENZENE	<5	ug/L	5.0	5	1
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1
TRICHLOROETHENE	<5	ug/L	5.0	5	1
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1
DIBROMOMETHANE	<5	ug/L	5.0	5	1
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1
TOLUENE	<5	ug/L	5.0	5	1
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1
1,3-DICHLOROPROPANE	<5	ug/L	5.0	5	1
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1
TETRACHLOROETHENE	<5	ug/L	5.0	5	1
1,2-DIBROMOETHANE	<5	ug/L	5.0	5	1
CHLOROBENZENE	<5	ug/L	5.0	5	1
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1

Report Notes: B, O-2

0000019

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-4DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MO12-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	14	ug/L	5.0	5	1
M+P-XYLENE	10	ug/L	5.0	5	1
BROMOFORM	<5	ug/L	5.0	5	1
O-XYLENE	<5	ug/L	5.0	5	1
STYRENE	<5	ug/L	5.0	5	1
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1
1,2,3-TRICHLOROPROPANE	<5	ug/L	5.0	5	1
ISOPROPYLBENZENE	550	ug/L	5.0	5	1
BROMOBENZENE	<5	ug/L	5.0	5	1
2-CHLOROTOLUENE	<5	ug/L	5.0	5	1
N-PROPYLBENZENE	<5	ug/L	5.0	5	1
4-CHLOROTOLUENE	<5	ug/L	5.0	5	1
1,3,5-TRIMETHYLBENZENE	<5	ug/L	5.0	5	1
TERT-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,2,4-TRIMETHYLBENZENE	21	ug/L	5.0	5	1
SEC-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1
P-ISOPROPYLTOLUENE	<5	ug/L	5.0	5	1
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1
N-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	5.0	5	1
1,2,4-TRICHLOROBENZENE	<5	ug/L	5.0	5	1
NAPHTHALENE	<5	ug/L	5.0	5	1
HEXACHLOROBUTADIENE	<5	ug/L	5.0	5	1
1,2,3-TRICHLOROBENZENE	<5	ug/L	5.0	5	1
ACETONE	<25	ug/L	5.0	25	5
2-BUTANONE	<25	ug/L	5.0	25	5
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRAHYDROFURAN	<5	ug/L	5.0	5	1
MTBE	<5	ug/L	5.0	5	1
VINYL ACETATE	<5	ug/L	5.0	5	1

Report Notes: B, O-2

0000020

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-4DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MO12-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	112	%	5.0		
TOLUENE-D8	107	%	5.0		
P-BROMOFLUOROBENZENE	106	%	5.0		
1,2-DICHLOROETHANE-D4	112	%	5.0		

Report Notes: B, O-2

0000020A

I

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** M112-1298

Matrix: WATER | **SDG Name:** WO3842

Percent Solids: 0.00 | **Lab Sample ID:** WO3842-005

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	4.6	~~B~~	U3	P	1

Color Before: | **Clarity Before:** | **Artifacts:**

Color After: | **Clarity After:**

Comments:

FORM I - IN

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3842-5
Report Date: 12/31/98
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M112-1298	Aqueous	CLIENT	12/02/98	12/03/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	130.	mg/L	1.0	20	E310.1	12/04/98	LT	
Nitrate as N	0.075	mg/L	1.0	0.050	353.2	12/04/98	CF	
Sulfate	<1.0	mg/L	1.0	1.0	375.4	12/14/98	LT	

* 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

12/31/98

LJO/baelp(dw)

340 County Road No. 5
P.O. Box 720, Westbrook, ME [illegible]098
Tel: (207) 874-2400 Fax: 2[illegible] 775-4029

http://katahdinlab.com

210 West Road N[illegible], Portsmouth, NH 03801
Tel: (603) 43[illegible] Fax: (603) 436-3356

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-5
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M112-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~B7~~ U	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	J0.7	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	~~B1~~ U	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J, E

0000023

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-5
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M112-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	15	ug/L	1.0	1	1
M+P-XYLENE	9	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	~~E540~~ 520	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	8	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	5	ug/L	1.0	1	1
TERT-BUTYLBENZENE	1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	32	ug/L	1.0	1	1
SEC-BUTYLBENZENE	1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	J4	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J, E

0000024

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-5
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M112-1298	AQ	12/2/98	12/3/98	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	119	%	1.0		
TOLUENE-D8	119	%	1.0		
P-BROMOFLUOROBENZENE	117	%	1.0		
1,2-DICHLOROETHANE-D4	121	%	1.0		

Report Notes: B, J, E

0000024A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-5DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M112-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<10	ug/L	5.0	10	2
CHLOROMETHANE	<10	ug/L	5.0	10	2
VINYL CHLORIDE	<10	ug/L	5.0	10	2
BROMOMETHANE	<10	ug/L	5.0	10	2
CHLOROETHANE	<10	ug/L	5.0	10	2
TRICHLOROFLUOROMETHANE	<10	ug/L	5.0	10	2
1,1-DICHLOROETHENE	<5	ug/L	5.0	5	1
METHYLENE CHLORIDE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	5.0	5	1
1,1-DICHLOROETHANE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHENE (CIS)	<5	ug/L	5.0	5	1
2,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1
BROMOCHLOROMETHANE	<5	ug/L	5.0	5	1
CHLOROFORM	<5	ug/L	5.0	5	1
1,1,1-TRICHLOROETHANE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1
1,1-DICHLOROPROPENE	<5	ug/L	5.0	5	1
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1
BENZENE	<5	ug/L	5.0	5	1
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1
TRICHLOROETHENE	<5	ug/L	5.0	5	1
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1
DIBROMOMETHANE	<5	ug/L	5.0	5	1
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1
TOLUENE	<5	ug/L	5.0	5	1
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1
1,3-DICHLOROPROPANE	<5	ug/L	5.0	5	1
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1
TETRACHLOROETHENE	<5	ug/L	5.0	5	1
1,2-DIBROMOETHANE	<5	ug/L	5.0	5	1
CHLOROBENZENE	<5	ug/L	5.0	5	1
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1

Report Notes: O-2

0000025

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-5DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M112-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	12	ug/L	5.0	5	1
M+P-XYLENE	<5	ug/L	5.0	5	1
BROMOFORM	<5	ug/L	5.0	5	1
O-XYLENE	<5	ug/L	5.0	5	1
STYRENE	<5	ug/L	5.0	5	1
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1
1,2,3-TRICHLOROPROPANE	<5	ug/L	5.0	5	1
ISOPROPYLBENZENE	520	ug/L	5.0	5	1
BROMOBENZENE	<5	ug/L	5.0	5	1
2-CHLOROTOLUENE	<5	ug/L	5.0	5	1
N-PROPYLBENZENE	<5	ug/L	5.0	5	1
4-CHLOROTOLUENE	<5	ug/L	5.0	5	1
1,3,5-TRIMETHYLBENZENE	<5	ug/L	5.0	5	1
TERT-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,2,4-TRIMETHYLBENZENE	19	ug/L	5.0	5	1
SEC-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1
P-ISOPROPYLTOLUENE	<5	ug/L	5.0	5	1
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1
N-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	5.0	5	1
1,2,4-TRICHLOROBENZENE	<5	ug/L	5.0	5	1
NAPHTHALENE	<5	ug/L	5.0	5	1
HEXACHLOROBUTADIENE	<5	ug/L	5.0	5	1
1,2,3-TRICHLOROBENZENE	<5	ug/L	5.0	5	1
ACETONE	<25	ug/L	5.0	25	5
2-BUTANONE	<25	ug/L	5.0	25	5
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRAHYDROFURAN	<5	ug/L	5.0	5	1
MTBE	<5	ug/L	5.0	5	1
VINYL ACETATE	<5	ug/L	5.0	5	1

Report Notes: O-2

0000026

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-5DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M112-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	111	%	5.0		
TOLUENE-D8	109	%	5.0		
P-BROMOFLUOROBENZENE	102	%	5.0		
1,2-DICHLOROETHANE-D4	110	%	5.0		

Report Notes: O-2

0000026A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** M212-1298

Matrix: WATER | **SDG Name:** WO3842

Percent Solids: 0.00 | **Lab Sample ID:** WO3842-006

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.31	U		P	1

Color Before: | **Clarity Before:** | **Artifacts:**

Color After: | **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-6
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M212-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	87 U	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B

0000028

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-6
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M212-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B

0000029

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-6
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M212-1298	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	114	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	120	%	1.0		

Report Notes: B

0000029A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-7
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	B8	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B

0000030

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-7
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B

0000031

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3842-7
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	AQ	12/2/98	12/3/98	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	118	%	1.0		
TOLUENE-D8	112	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	120	%	1.0		

Report Notes: B

0000031A

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWOL05ICW1

Matrix: WATER **SDG Name:** WO3842

QC Batch ID: OL05ICW1

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

Analyte	RESULT	C
LEAD	1.560	B

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWOL05ICW1

Matrix: WATER **SDG Name:** WO3842

QC Batch ID: OL05ICW1

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

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	474.62	94.9	80	120

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** MOO1-1298S

Matrix: WATER | **SDG Name:** WO3842

Percent Solids: 0.00 | **Lab Sample ID:** WO3842-001P

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

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD	540.8100		8.1000		500	106.5		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** MOO1-1298S

Matrix: WATER | **SDG Name:** WO3842

Percent Solids: 0.00 | **Lab Sample ID:** WO3842-001S

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

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD	548.0700		8.1000		500	108.0		75	125	P

Comments:

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** OL05ICW1

Matrix: WATER **SDG Name:** WO3842

Method: P **Prep Date:** 12/5/98

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWOL05ICW1	LCSWOL05ICW1	0.05	0.05
PBWOL05ICW1	PBWOL05ICW1	0.05	0.05
MOO1-1298	WO3842-001	0.05	0.05
MOO1-1298P	WO3842-001P	0.05	0.05
MOO1-1298S	WO3842-001S	0.05	0.05
MOO3-1298	WO3842-002	0.05	0.05
MOO4-1298	WO3842-003	0.05	0.05
MO12-1298	WO3842-004	0.05	0.05
M112-1298	WO3842-005	0.05	0.05
M212-1298	WO3842-006	0.05	0.05

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston	
Work Order: WO3842	

			METHOD BLANK RESULTS						LABORATORY CONTROL SAMPLE RESULTS					
Parameter	Date of Prep	Date of Analysis	Units		Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
Alkalinity	04-Dec-98	04-Dec-98	mg/L	<	20	<	20	20.0	mg/L	125	134	107.2	87-119	@
Nitrate-Nitrogen	04-Dec-98	04-Dec-98	mg/L	<	0.050	<	0.050	0.050	mg/L	1.00	0.84	84.0	80-120	
Sulfate	14-Dec-98	14-Dec-98	mg/L	<	1.0	<	1.0	1.0	mg	250	237	94.8	83-112	@

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

@ The laboratory uses the internally established statistical 99% confidence range as the acceptance range for this LCS.

000037

Katahdin Analytical Services, Inc.
Quality Control Report

Duplicate and Matrix Spike/Matrix Spike Duplicate Results

Client: Roy F. Weston
Work Order: WO3842

		DUPLICATE RESULTS						MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS									
			Sample Measurements				Acceptance		Concentration or Quantity				Matrix Spike Recovery (%)				
Parameter	Katahdin Sample No	Units	Rep 1	Rep 2	Mean Conc	RPD (%)	Range for RPD (%)	Units	Sampl Only	Spike Added	Sample +Spike Dup 1	Sample +Spike Dup 2	Sample +Spike Dup 1	Sample +Spike Dup 2	Acceptance Range (%)	RPD (%)	Acceptance Range (%)
Alkalinity	WO3842-3	mg/L					0-20	mg/L	23.3	125	151.2		102.3		75-125		0-20
Sulfate	WO3842-1	mg/L					0-20	mg	0.03	0.50	0.49		93.0		75-125		0-20
Sulfate	WO3842-3	mg/L	8.910	9.560	9.235	7.0	0-20	mg	0.23	0.50	0.71		97.0		75-125		0-20

RPD = Relative percent difference, which is the absolute value of the difference between two replicate results divided by the mean concentration then multiplied by 100%.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory or contract specified acceptance range except as noted. The laboratory does not use the sample duplicate and matrix spike acceptance ranges as acceptance criteria for a specific analysis. Sample duplicate and matrix spike data are used to evaluate method performance in the environmental sample matrix only. Please refer to LCS data for assessment of quality control for each parameter.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ08B
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ08B	AQ	-	-	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	3	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000039

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ08B
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ08B	AQ	-	-	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000040

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ08B
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/8/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ08B	AQ	-	-	12/8/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	97	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		
1,2-DICHLOROETHANE-D4	95	%	1.0		

Report Notes:

0000040A

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Z8459 **Sample ID:** LCSZ08A **Date Run:** 12/8/98

Analyst: KRT **Time Injected:** 10:17:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1,2-TETRACHLOROETHANE	50	58.5	117	60-140
1,1,1-TRICHLOROETHANE	50	56.7	113	60-140
1,1,2,2-TETRACHLOROETHANE	50	60.1	120	60-140
1,1,2-TRICHLOROETHANE	50	58.3	117	60-140
1,1-DICHLOROETHANE	50	58.4	117	60-140
1,1-DICHLOROETHENE	50	62.4	125	60-140
1,1-DICHLOROPROPENE	50	59.6	119	60-140
1,2,3-TRICHLOROBENZENE	50	61.2	122	60-140
1,2,3-TRICHLOROPROPANE	50	46.8	94	60-140
1,2,4-TRICHLOROBENZENE	50	63.8	128	60-140
1,2,4-TRIMETHYLBENZENE	50	67.8	136	60-140
1,2-DIBROMO-3-CHLOROPROPANE	50	52.0	104	60-140
1,2-DIBROMOETHANE	50	59.7	119	60-140
1,2-DICHLOROBENZENE	50	63.5	127	60-140
1,2-DICHLOROETHANE	50	59.9	120	60-140
1,2-DICHLOROETHENE (CIS)	50	62.6	125	60-140
1,2-DICHLOROETHENE (TRANS)	50	63.7	127	60-140
1,2-DICHLOROPROPANE	50	60.2	120	60-140
1,3,5-TRIMETHYLBENZENE	50	68.1	136	60-140
1,3-DICHLOROBENZENE	50	63.3	126	60-140
1,3-DICHLOROPROPANE	50	61.5	123	60-140
1,4-DICHLOROBENZENE	50	60.9	122	60-140
2,2-DICHLOROPROPANE	50	54.0	108	60-140
2,2-DICHLOROPROPANE	50	54.0	108	64-140
2-BUTANONE	50	49.8	100	60-140
2-CHLOROTOLUENE	50	62.9	126	60-140
2-HEXANONE	50	53.8	108	60-140
4-CHLOROTOLUENE	50	64.3	128	60-140
4-METHYL-2-PENTANONE	50	55.9	112	60-140
ACETONE	50	42.2	84	60-140
BENZENE	50	61.8	124	60-140
BROMOBENZENE	50	62.6	125	60-140
BROMOCHLOROMETHANE	50	59.0	118	60-140
BROMODICHLOROMETHANE	50	60.1	120	60-140
BROMOFORM	50	60.0	120	60-140
BROMOMETHANE	50	58.6	117	60-140
CARBON TETRACHLORIDE	50	57.3	114	60-140
CHLOROBENZENE	50	60.7	121	60-140
CHLOROETHANE	50	60.2	120	60-140
CHLOROFORM	50	55.5	111	60-140
CHLOROMETHANE	50	64.7	129	60-140

* Out of Limits *1*

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Z8459 | Sample ID: LCSZ08A | Date Run: 12/8/98

Analyst: KRT | Time Injected: 10:17:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
CIS-1,3-DICHLOROPROPENE	50	64.0	128	60-140
DIBROMOCHLOROMETHANE	50	62.8	126	60-140
DIBROMOMETHANE	50	59.5	119	60-140
DICHLORODIFLUOROMETHANE	50	66.2	132	60-140
ETHYLBENZENE	50	66.0	132	60-140
HEXACHLOROBUTADIENE	50	59.7	119	60-140
ISOPROPYLBENZENE	50	68.8	138	60-140
M+P-XYLENE	100	130	130	60-140
METHYLENE CHLORIDE	50	53.2	106	60-140
MTBE	50	58.8	118	60-140
N-BUTYLBENZENE	50	68.0	136	60-140
N-PROPYLBENZENE	50	63.4	127	60-140
N-PROPYLBENZENE	50	63.4	127	60-145
NAPHTHALENE	50	67.6	135	60-140
O-XYLENE	50	68.5	137	60-140
P-ISOPROPYLTOLUENE	50	67.7	135	60-140
SEC-BUTYLBENZENE	50	66.4	133	60-140
STYRENE	50	65.7	131	60-140
TERT-BUTYLBENZENE	50	68.4	137	60-140
TETRACHLOROETHENE	50	60.0	120	60-140
TETRAHYDROFURAN	50	60.0	120	60-140
TOLUENE	50	63.6	127	60-140
TRANS-1,3-DICHLOROPROPENE	50	58.9	118	60-140
TRICHLOROETHENE	50	58.2	116	60-140
TRICHLOROFLUOROMETHANE	50	58.0	116	60-140
VINYL ACETATE	50	61.3	123	60-140
VINYL CHLORIDE	50	61.6	123	60-140

* Out of Limits

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ09A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ09A	AQ	-	-	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000043

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ09A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ09A	AQ	-	-	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000044

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ09A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/9/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ09A	AQ	-	-	12/9/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	106	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	106	%	1.0		

Report Notes:

0000044A

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Z8477 | Sample ID: LCSZ09A | Date Run: 12/9/98

Analyst: KRT | Time Injected: 10:25:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1,2-TETRACHLOROETHANE	50	58.2	116	60-140
1,1,1-TRICHLOROETHANE	50	57.4	115	60-140
1,1,2,2-TETRACHLOROETHANE	50	57.2	114	60-140
1,1,2-TRICHLOROETHANE	50	56.5	113	60-140
1,1-DICHLOROETHANE	50	57.3	114	60-140
1,1-DICHLOROETHENE	50	59.8	120	60-140
1,1-DICHLOROPROPENE	50	57.8	116	60-140
1,2,3-TRICHLOROBENZENE	50	57.2	114	60-140
1,2,3-TRICHLOROPROPANE	50	45.8	92	60-140
1,2,4-TRICHLOROBENZENE	50	59.1	118	60-140
1,2,4-TRIMETHYLBENZENE	50	64.2	128	60-140
1,2-DIBROMO-3-CHLOROPROPANE	50	52.6	105	60-140
1,2-DIBROMOETHANE	50	59.7	119	60-140
1,2-DICHLOROBENZENE	50	60.8	122	60-140
1,2-DICHLOROETHANE	50	58.0	116	60-140
1,2-DICHLOROETHENE (CIS)	50	61.0	122	60-140
1,2-DICHLOROETHENE (TRANS)	50	60.4	121	60-140
1,2-DICHLOROPROPANE	50	57.1	114	60-140
1,3,5-TRIMETHYLBENZENE	50	64.6	129	60-140
1,3-DICHLOROBENZENE	50	59.4	119	60-140
1,3-DICHLOROPROPANE	50	58.7	117	60-140
1,4-DICHLOROBENZENE	50	57.6	115	60-140
2,2-DICHLOROPROPANE	50	54.9	110	60-140
2,2-DICHLOROPROPANE	50	54.9	110	64-140
2-BUTANONE	50	47.4	95	60-140
2-CHLOROTOLUENE	50	60.3	120	60-140
2-HEXANONE	50	54.0	108	60-140
4-CHLOROTOLUENE	50	61.3	123	60-140
4-METHYL-2-PENTANONE	50	57.3	114	60-140
ACETONE	50	35.2	70	60-140
BENZENE	50	58.4	117	60-140
BROMOBENZENE	50	58.7	117	60-140
BROMOCHLOROMETHANE	50	58.0	116	60-140
BROMODICHLOROMETHANE	50	58.1	116	60-140
BROMOFORM	50	59.5	119	60-140
BROMOMETHANE	50	58.7	117	60-140
CARBON TETRACHLORIDE	50	55.0	110	60-140
CHLOROBENZENE	50	58.6	117	60-140
CHLOROETHANE	50	57.1	114	60-140
CHLOROFORM	50	56.2	112	60-140
CHLOROMETHANE	50	59.1	118	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Z8477 | Sample ID: LCSZ09A | Date Run: 12/9/98

Analyst: KRT | Time Injected: 10:25:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
CIS-1,3-DICHLOROPROPENE	50	60.8	122	60-140
DIBROMOCHLOROMETHANE	50	61.3	122	60-140
DIBROMOMETHANE	50	57.4	115	60-140
DICHLORODIFLUOROMETHANE	50	65.0	130	60-140
ETHYLBENZENE	50	63.0	126	60-140
HEXACHLOROBUTADIENE	50	57.4	115	60-140
ISOPROPYLBENZENE	50	63.8	128	60-140
M+P-XYLENE	100	125	125	60-140
METHYLENE CHLORIDE	50	49.2	98	60-140
MTBE	50	56.8	114	60-140
N-BUTYLBENZENE	50	64.0	128	60-140
N-PROPYLBENZENE	50	60.3	120	60-140
N-PROPYLBENZENE	50	60.3	120	60-145
NAPHTHALENE	50	63.4	127	60-140
O-XYLENE	50	66.0	132	60-140
P-ISOPROPYLTOLUENE	50	63.5	127	60-140
SEC-BUTYLBENZENE	50	62.0	124	60-140
STYRENE	50	64.9	130	60-140
TERT-BUTYLBENZENE	50	63.1	126	60-140
TETRACHLOROETHENE	50	57.3	114	60-140
TETRAHYDROFURAN	50	57.1	114	60-140
TOLUENE	50	60.7	121	60-140
TRANS-1,3-DICHLOROPROPENE	50	58.7	117	60-140
TRICHLOROETHENE	50	55.3	111	60-140
TRICHLOROFLUOROMETHANE	50	57.3	115	60-140
VINYL ACETATE	50	59.5	119	60-140
VINYL CHLORIDE	50	61.5	123	60-140

* Out of Limits

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3842-1	Z8467	12/8/98	3:33:00 PM	KRT	AQ	8260
WO3842-1MS	Z8472	12/8/98	6:44:00 PM	KRT	AQ	8260
WO3842-1MSD	Z8473	12/8/98	7:23:00 PM	KRT	AQ	8260

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
2-HEXANONE	0	50	50	39.4	43.8	79	88	60-140	11	20
1,3,5-TRIMETHYLBENZENE	18.4	50	50	71.7	73.7	106	110	60-140	3.6	20
1,3-DICHLOROBENZENE	0	50	50	47.1	50.1	94	100	60-140	6.1	20
1,3-DICHLOROPROPANE	0	50	50	48.0	49.8	96	100	60-140	3.6	20
1,4-DICHLOROBENZENE	0	50	50	46.3	48.4	92	97	60-140	4.4	20
2,2-DICHLOROPROPANE	0	50	50	40.5	41.4	81	83	60-140	2.4	20
BROMODICHLOROMETHANE	0	50	50	48.9	52.6	98	105	60-140	7.2	20
2-CHLOROTOLUENE	0	50	50	56.3	56.4	113	113	60-140	0.1	20
1,2-DICHLOROETHENE (CIS)	0	50	50	46.3	49.6	92	99	60-140	7.0	20
4-CHLOROTOLUENE	0	50	50	52.6	53.5	105	107	60-140	1.8	20
4-METHYL-2-PENTANONE	0	50	50	42.6	48.9	85	98	60-140	14	20
ACETONE	5.00	50	50	29.3	33.8	*48	*58	60-140	17	20
BENZENE	2.25	50	50	52.5	54.3	100	104	60-140	3.6	20
BROMOBENZENE	0	50	50	48.2	48.8	96	98	60-140	1.2	20
1,1,2,2-TETRACHLOROETHANE	0	50	50	47.6	50.0	95	100	60-140	4.8	20
2-BUTANONE	0	50	50	41.1	46.6	82	93	60-140	12	20
1,2,4-TRICHLOROBENZENE	0	50	50	40.7	48.7	81	97	60-140	18	20
1,1,1-TRICHLOROETHANE	0	50	50	44.6	46.7	89	93	60-140	4.4	20
1,1,2,2-TETRACHLOROETHANE	0	50	50	47.3	50.3	95	100	60-140	6.0	20
1,1,2-TRICHLOROETHANE	0	50	50	46.1	50.1	92	100	60-140	8.3	20
1,1-DICHLOROETHANE	0	50	50	45.7	47.2	91	94	60-140	3.2	20
1,1-DICHLOROETHENE	0	50	50	47.3	48.5	95	97	60-140	2.4	20
1,1-DICHLOROPROPENE	0	50	50	47.9	49.0	96	98	60-140	2.3	20
1,2-DICHLOROPROPANE	0	50	50	48.6	51.9	97	104	60-140	6.5	20
1,2,3-TRICHLOROPROPANE	0	50	50	38.8	41.7	78	83	60-140	7.2	20
1,2-DICHLOROETHENE (TRANS)	0	50	50	49.7	51.1	99	102	60-140	2.8	20
1,2,4-TRIMETHYLBENZENE	36.8	50	50	90.6	91.5	108	109	60-140	1.7	20
1,2-DIBROMO-3-CHLOROPROPANE	0	50	50	42.2	43.3	84	86	60-140	2.4	20
1,2-DIBROMOETHANE	0	50	50	46.9	52.2	94	104	60-140	11	20
1,2-DICHLOROBENZENE	0	50	50	47.7	51.4	95	103	60-140	7.3	20
1,2-DICHLOROETHANE	0	50	50	50.0	52.2	100	104	60-140	4.3	20
BROMOFORM	0	50	50	45.5	48.9	91	98	60-140	7.1	20
1,2,3-TRICHLOROBENZENE	0	50	50	38.4	47.9	77	96	60-140	*22	20
TETRACHLOROETHENE	0	50	50	45.6	45.7	91	91	60-140	0.3	20
N-PROPYLBENZENE	8.54	50	50	33.4	33.8	*50	*50	60-140	1.4	20
NAPHTHALENE	1.37	50	50	47.5	54.3	92	106	60-140	14	20
O-XYLENE	0	50	50	51.7	52.7	103	105	60-140	1.9	20
P-ISOPROPYLTOLUENE	0	50	50	50.9	52.5	102	105	60-140	3.1	20
SEC-BUTYLBENZENE	0.520	50	50	50.5	52.0	100	103	60-140	2.8	20
BROMOCHLOROMETHANE	0	50	50	45.6	50.9	91	102	60-140	11	20
TERT-BUTYLBENZENE	0	50	50	51.7	52.7	103	105	60-140	1.9	20
METHYLENE CHLORIDE	6.01	50	50	42.9	46.6	74	81	60-140	9.4	20
TETRAHYDROFURAN	0	50	50	44.9	53.2	90	106	60-140	17	20
TOLUENE	0.720	50	50	49.3	51.6	97	102	60-140	4.5	20

RPD = (ms rec - msd rec) / (ms rec + msd rec)/2] * 100 * Out of Limits

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3842-1	Z8467	12/8/98	3:33:00 PM	KRT	AQ	8260
WO3842-1MS	Z8472	12/8/98	6:44:00 PM	KRT	AQ	8260
WO3842-1MSD	Z8473	12/8/98	7:23:00 PM	KRT	AQ	8260

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
TRANS-1,3-DICHLOROPROPENE	0	50	50	43.6	47.4	87	95	60-140	8.3	20
TRICHLOROETHENE	1.14	50	50	44.8	45.9	87	89	60-140	2.4	20
TRICHLOROFLUOROMETHANE	0	50	50	46.1	46.6	92	93	60-140	1.1	20
VINYL ACETATE	0	50	50	44.3	51.3	89	103	60-140	15	20
STYRENE	0	50	50	51.9	52.4	104	105	60-140	1	20
DIBROMOMETHANE	0	50	50	46.2	49.7	92	99	60-140	7.3	20
BROMOMETHANE	0	50	50	49.0	48.5	98	97	60-140	1.0	20
CARBON TETRACHLORIDE	0	50	50	43.8	45.0	88	90	60-140	2.7	20
CHLOROBENZENE	0	50	50	47.2	48.2	94	96	60-140	2.3	20
CHLOROETHANE	0	50	50	47.1	49.1	94	98	60-140	4.0	20
CHLOROFORM	0	50	50	44.2	46.7	88	93	60-140	5.4	20
CHLOROMETHANE	2.82	50	50	53.1	54.4	101	103	60-140	2.6	20
N-BUTYLBENZENE	0.600	50	50	51.4	54.3	102	107	60-140	5.6	20
DIBROMOCHLOROMETHANE	0	50	50	48.6	51.1	97	102	60-140	4.8	20
MTBE	0	50	50	43.7	48.8	87	98	60-140	11	20
DICHLORODIFLUOROMETHANE	0	50	50	52.4	53.6	105	107	60-140	2.2	20
ETHYLBENZENE	24.6	50	50	79.1	80.0	109	111	60-140	1.6	20
HEXACHLOROBUTADIENE	0	50	50	42.1	46.6	84	93	60-140	10	20
ISOPROPYLBENZENE	70.4	50	50	124	122	108	104	60-140	3.6	20
M+P-XYLENE	38.0	100	100	143	144	105	106	60-140	1.7	20
VINYL CHLORIDE	0	50	50	47.9	49.8	96	100	60-140	3.8	20
CIS-1,3-DICHLOROPROPENE	0	50	50	46.8	49.7	94	99	60-140	6.1	20

RPD = (ms rec - msd rec) / (ms rec + msd rec)/2] * 100

* Out of Limits

The State of New Hampshire
Department of Environmental Services

CERTIFICATE OF APPROVAL
Wastewater Analysis

Issued to
Katahdin Analytical Services

Located at
340 County Road, #5, Westbrook, ME

Under the provisions of the Regulations in Env-C300 for the following analyses:

FULL CERTIFICATION: PCB's in Oil, Pesticides, Volatile Organics, PCB's in Water, Chloride, Arsenic, Aluminum, Specific Conductance, TDS, Total Hardness, Calcium, Magnesium, Sodium, Beryllium, Total Alkalinity, Titanium, Fluoride, Sulfate, Ammonia-N, Nitrate-N, Orthophosphate, Potassium, Oil & Grease (Freon), Manganese, Nickel, Lead, Selenium, Vanadium, Zinc, Cadmium, Silver, Mercury, Molybdenum, TKN, Iron, Copper, Chromium, Cobalt, Strontium, Fecal Coliform by MF, Antimony, Carbonaceous BOD, TOC, 5-Day BOD, pH, Thallium, Non-Filterable Residue, Total Phenolics, COD, Total Cyanide.

PROVISIONAL CERTIFICATION: Total Phosphorus.

REPLACES CERFICATE #: 200198-B

CERTIFICATE NUMBER: 200198-D

DATE OF ISSUE: July 07, 1998

EXPIRATION DATE: April 02, 1999

Charles M. Wyer
Certifying Officer

LITHO IN U.S.A.
© OOES 746

Charlestown, RI Site 8

COOLER RECEIPT FORM

Number of Coolers: 2

LIMS #: WO 3842 Date received: 12-3-98

Project: Charlestown, RI - Site 8

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 12-3-98

by (print): KAS (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? . . . . . YES NO

   If YES, enter carrier name and airbill number here: _____

2. Were custody seals on outside of cooler? . . . . . YES NO

   How many and where: 1, seal date: 12-2-98, seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
4. Did you screen samples for radioactivity using a Geiger Counter? . . . . . YES NO
5. Were custody papers sealed in a plastic bag and taped inside the lid? . . . . . YES NO
6. Were custody papers filled out properly (ink, signed, etc.)? . . . . . YES NO
7. Did you sign custody papers in the appropriate place? . . . . . YES NO
8. Was project identifiable from custody papers? If YES, enter project name at the top of this form YES NO
9. If required, was enough ice used? Type of ice: Cube . . . . . YES NO
10. Have designated person initial here to acknowledge receipt of cooler: KAS (date) 12-3-98

B. LOG-IN PHASE: Date samples were logged in: 12-3-98

by (print): [signature] (sign): [signature]

11. Describe type of packing in cooler: Bubble Pack
12. Were all bottles sealed in separate plastic bags? . . . . . YES NO
13. Did all bottles arrive unbroken and were labels in good condition? . . . . . YES NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
15. Did all bottle labels agree with custody papers? . . . . . YES NO
16. Were correct containers used for the tests indicated? . . . . . YES NO
17. Were correct preservatives added to samples? . . . . . YES NO
18. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
19. Were bubbles absent in VOA samples? If NO, list by sample #: _____ . . . . . YES NO
20. Was the project manager called and status discussed? If YES, give details on the back of this form YES NO
21. Who was called? _____ By whom? _____ (date): _____

FIGURE 6-4
LABORATORY COOLER RECEIPT FORM

Charlestown, RI Site 8

COOLER RECEIPT FORM

Number of Coolers: 2

LIMS #: 103842 Date received: 12-3-98

Project: Charlestown, RI - Site 8

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 12-3-98

by (print): KAS (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? . . . . . YES NO

   If YES, enter carrier name and airbill number here: _____

2. Were custody seals on outside of cooler? . . . . . YES NO

   How many and where: 1, seal date: 12-2-98, seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? . . . . . YES NO
4. Did you screen samples for radioactivity using a Geiger Counter? . . . . . YES NO
5. Were custody papers sealed in a plastic bag and taped inside the lid? . . . . . YES NO
6. Were custody papers filled out properly (ink, signed, etc.)? . . . . . YES NO
7. Did you sign custody papers in the appropriate place? . . . . . YES NO
8. Was project identifiable from custody papers? If YES, enter project name at the top of this form YES NO
9. If required, was enough ice used? Type of ice: Cube . . . . . YES NO
10. Have designated person initial here to acknowledge receipt of cooler: KAS (date) 12-3-98

B. LOG-IN PHASE: Date samples were logged in: 12-3-98

by (print): [signature] (sign): [signature]

11. Describe type of packing in cooler: Bubble Pack
12. Were all bottles sealed in separate plastic bags? . . . . . YES NO
13. Did all bottles arrive unbroken and were labels in good condition? . . . . . YES NO
14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? . . . . . YES NO
15. Did all bottle labels agree with custody papers? . . . . . YES NO
16. Were correct containers used for the tests indicated? . . . . . YES NO
17. Were correct preservatives added to samples? . . . . . YES NO
18. Was a sufficient amount of sample sent for tests indicated? . . . . . YES NO
19. Were bubbles absent in VOA samples? If NO, list by sample #: _____ . . . . . YES NO
20. Was the project manager called and status discussed? If YES, give details on the back of this form YES NO
21. Who was called? _____ By whom? _____ (date): _____

FIGURE 6-4
LABORATORY COOLER RECEIPT FORM

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # CU03842

PAGE: 1 OF 2

COOLER: 1 OF 2

COC#

SDG#

DATE / TIME RECEIVED: 12/3 0815

DELIVERED BY: KAT

RECEIVED BY: KAS

LIMS ENTRY BY: KAS

LIMS REVIEW BY / PM: L. Pepin

CLIENT: R. Weston

PROJECT: Charleston Site 8

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☒	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☒	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☒	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☒	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☒	☐	☐	TEMP BLANK TEMP (°C)= 2.0	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or N?	☒	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☒	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☒	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☒	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☒	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☒	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☒	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

0000052

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # CW03542

PAGE: 2 OF 2

COOLER: 2 OF 2

CLIENT: Weston

PROJECT: Charleston Site 8

COC#
SDG#
DATE / TIME RECEIVED: 12/3/98 0815
DELIVERED BY: XPT
RECEIVED BY: TAS
LIMS ENTRY BY: DAS
LIMS REVIEW BY / PM: Klepin

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☒	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☐	☒	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☐	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☐	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☐	☐	☐	TEMP BLANK TEMP (°C)= 3.1	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or N?	☐	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☒	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☒	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☐	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☐	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☐	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☒	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

[1] Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

0000053

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

Client: Roy F. Weston Inc
Contact: V. DeMoRusso
Phone #: (603) 656 5467
Fax #: (603) 656 5451
Address: One Wall St
City: Manchester
State: NH
Zip Code: 03101
Purchase Order #:
Proj. Name / No.: Charlestown RI Site 8
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Vincent DeMoRusso / Vincent DeMoRusso
Copies To:

LAB USE ONLY
WORK ORDER #: WO 38 42
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 5030B/8260B 3 x 40ml w/HCl	Total Lead 3010/6010B 1 x 125ml w/HNO3	Alkalinity 310.1 1 x 250ml unpres	Nitrate 300 1 x 250ml unpres	Sulfate 300 1 x 250ml unpres	Ferrous Iron 3500D 1 x 250ml unpres				
	M001-1298	12/2/98/1130	W	16	9	3	1	1	1	1		VOC and Pb MS/MSD Sample		
	M003-1298	12/2/98/1535	W	8	3	1	1	1	1	1				
	M004-1298	12/2/98/1445	W	8	3	1	1	1	1	1				
	M012-1298	12/2/98/1330	W	8	3	1	1	1	1	1				
	M112-1298	12/2/98/1330	W	8	3	1	1	1	1	1				
	M212-1298	12/2/98/1330	W	4	3	1								
	TB-1	12/2/98/0900	W	3	Lab Prepared									
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
V DeMoRusso	12/2/98 5pm	[illegible]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[illegible]	12/3 0815		

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WO-3842

Project Manager: Lil Pepin
ORDER DATE: 12/03/98
PHONE: 603/656-5467
FAX: 603/656-5401
DUE: 17 DEC

REPORT TO: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: VINCENT DELLORUSS
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5467
PO: 97845L

PROJECT: CHARLESTON, RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: KATAHDIN DISPOSE: AFTER 02 JAN

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WO3842-1	MOO1-1298	02 DEC 1130	03 DEC	AQ
	WO3842-2	MOO3-1298	02 DEC 1535		
	WO3842-3	MOO4-1298	02 DEC 1445		
	WO3842-4	MO12-1298	02 DEC 1330		
	WO3842-5	M112-1298	02 DEC 1330		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Lead, Total	200.7/6010	5	21.00	105.00
Alkalinity, as CaCO3	E310.1	5	11.00	55.00
Nitrate as N	353.2	5	11.00	55.00
Sulfate	375.4	5	20.00	100.00
VOAs (8260)	EPA 8260	5	110.00	550.00
TOTALS		5	173.00	865.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WO3842-6	M212-1298	02 DEC 1230	03 DEC	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Lead, Total	200.7/6010	1	21.00	21.00
VOAs (8260)	EPA 8260	1	110.00	110.00
TOTALS		1	131.00	131.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
3	WO3842-7	TB-1	02 DEC 0900	03 DEC	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
VOAs (8260)	EPA 8260	1	110.00	110.00

LABORATORY ORDER CONTINUED ON PAGE 2

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WO-3842

Project Manager: Lil Pepin
ORDER DATE: 12/03/98
PHONE: 603/656-5467
FAX: 603/656-5401
DUE: 17 DEC

REPORT TO: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: VINCENT DELLORUSS
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5467
PO: 97845L

PROJECT: CHARLESTON, RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: KATAHDIN DISPOSE: AFTER 02 JAN

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
4	WO3842-4	M012-1298	02 DEC 1330	03 DEC	AQ
	WO3842-5	M112-1298	02 DEC 1330		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by 8260A	SW8260	2	0.00	0.00

ORDER NOTE: QC-II+
CHARLESTON RI SITE 8

FINAL PAGE

INVOICE: With Report

TOTAL ORDER AMOUNT $1,106.00
This is NOT an Invoice

DBG/KAS/LP/WEST.DBG(dw)/WEST.LP(dw)
12-23Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

Katahdin
ANALYTICAL SERVICES

January 26, 1999

RECEIVED
1 28 1999
WESTON, INC.

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE: Katahdin Lab Number: WO3912
Project ID: Charleston, RI Site 8
Project Manager: Ms. Lil Pepin
Sample Receipt Date: December 9, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Reissued Report of Analytical Results (ROA) for the samples and blanks in the work order mentioned above. These ROA have been corrected to report acetone, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, tetrahydrofuran, methyl tertbutyl ether, vinyl acetate. The reissued pages have been paginated to be inserted into the original report.

The compounds listed were inadvertently omitted from the ROAs submitted in the original report.. We apologize for any inconvenience our error may have caused you.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Nan'a Crouch
Authorized Signature

01/26/99
Date

540 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

January 7, 1999

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE: Katahdin Lab Number: WO-3912
Project ID: Charleston, RI Site 8
Project Manager: Ms. Lil Pepin
Sample Receipt Date: December 9, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Maria Crouch
Authorized Signature

01/07/99
Date

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

TECHNICAL NARRATIVE

Volatile Analysis

All samples were received and analyzed within hold time. Analysis was performed in accordance with method 8260B as stated in the project plan. Reanalysis was required on Katahdin sample WO3912-8 (client ID MO13-1298) due to elevated target analytes. The reanalysis was performed at 1:50, both sets of data are provided.

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) 431-5[illegible] Fax: (603) 436-3356

KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
B	'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

DATA REVIEW CHECKLIST

Site: Charlestown, RI

Katahdin Lab Number: WO-3912

WESTON Sample IDs: M001-1298, M002-1298, M003-1298, M004-1298 M005-1298, M012-1298, M112-1298, M013-1298 + TB-2

Data Reviewed	Fraction: Ferrous Iron	CaCO3 Nitrate Sulfate	8260	Lead			Comments
Chain of Custody	✓	✓	✓	✓			
Log-in Sheet	✓	✓	✓	✓			
Preservation	✓	✓	✓	✓			
Holding Time	✓	✓	✓	✓			
Trip Blanks	NA		✓	NA			
Instrument/Method Blanks (soils/solids)	NA →						
Instrument/Method Blanks (Aqueous)	✓	✓	U1 / U4	1.35 x 5 = 6.75 ug/L U3 action level			~~U3~~
MS/MSD - Soil/Solid	NA →						
MS/MSD - Aqueous	✓	✓	*	✓			*several compds recovered below QC limits in MS/MSD → no action since LCS met criteria
LCS/LFB	✓	✓	✓	✓			
Blank Spikes (BS/BSD)	NA →						
Lab Duplicates	✓	✓	NA →	✓			
Field Duplicates	✓	✓	✓	✓			
Surrogate Recoveries			✓				

✓ = Data reviewed

NA = Not Applicable

Note: Data reviewed but not commented on is considered acceptable.

Qualifiers Used: U3 - Qualify pos lead result as undetected in samples M002-1298, M005-1298 due to prep blank contamination.

U1 - Qualify pos MeCl2 as undetected due to method blank contamination

U4 - Qualify pos sec-butylbenzene and n-butylbenzene in sample M013-1298 as undetected due to method blank contamination

Data Reviewer Initials: DFQ

Date: 2/2/99

$meCl_2 = 2 \times 10 = 20$

VBLKS12A – sec butylbenzene 0.5 ×5 2.5
n-butylbenzene 0.6 3.0
napthalene 0.9 4.5
1,2,3-trichlorobenzene 0.8 4.0

VBLKS14A – $meCl_2 = 2$
n-butylbenzene 0.5
napthalene = 0.6 ×5 = 3.0

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-1
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M001-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Ferrous Iron	24.	mg/L	2.5	0.10	SM3500D	12/09/98	MD	

* 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.

01/07/99

LJO/baelp(dw)/msm

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-2
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M003-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Ferrous Iron	2.2	mg/L	1.0	0.10	SM3500D	12/09/98	MD	

* 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.

01/07/99

LJO/baelp(dw)/msm

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-3
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M004-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Ferrous Iron	4.8	mg/L	1.0	0.10	SM3500D	12/09/98	MD	

* 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.

01/07/99

LJO/baelp(dw)/msm

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-4
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M012-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Ferrous Iron	19.	mg/L	2.5	0.10	SM3500D	12/09/98	MD	

* 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.

01/07/99

LJO/baelp(dw)/msm

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-5
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M112-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Ferrous Iron	18.	mg/L	2.5	0.10	SM3500D	12/09/98	MD	

* 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.

01/07/99

LJO/baelp(dw)/msm

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** M002-1298

Matrix: WATER **SDG Name:** WO3912

Percent Solids: 0.00 **Lab Sample ID:** WO3912-006

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	2.2	~~B~~	U3	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-6
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M002-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	110.	mg/L	1.0	20	E310.1	12/11/98	JF	
Ferrous Iron	24.	mg/L	2.5	0.10	SM3500D	12/09/98	MD	
Nitrate as N	<0.050	mg/L	1.0	0.050	353.2	12/09/98	CF	
Sulfate	1.4	mg/L	1.0	1.0	375.4	12/15/98	MD	

* 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.

01/07/99

LJO/baelp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-6
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M002-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~3~~ U'	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	J0.5	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000011

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-6
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M002-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	J0.5	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	6	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000012

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-6
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M002-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	112	ug/L	1.0		
TOLUENE-D8	110	ug/L	1.0		
P-BROMOFLUOROBENZENE	99	ug/L	1.0		
1,2-DICHLOROETHANE-D4	108	ug/L	1.0		

Report Notes: B, J

0000012A

INORGANIC ANALYSIS DATA SHEET

Lab Name: ***Katahdin Analytical Services*** **Client Field ID:** *M005-1298*

Matrix: WATER **SDG Name:** WO3912

Percent Solids: 0.00 **Lab Sample ID:** WO3912-007

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	2.8	~~B~~	U3	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: ***Clarity After:***

Comments:

FORM I - IN

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-7
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M005-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	46.	mg/L	1.0	20	E310.1	12/11/98	JF	
Ferrous Iron	2.2	mg/L	1.0	0.10	SM3500D	12/09/98	MD	
Nitrate as N	0.37	mg/L	1.0	0.050	353.2	12/09/98	CF	
Sulfate	4.0	mg/L	1.0	1.0	375.4	12/15/98	MD	

* 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.

01/07/99

LJO/baelp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-7
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M005-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~2~~ U1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000015

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-7
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M005-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	J0.7	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000016

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-7
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M005-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	114	ug/L	1.0		
TOLUENE-D8	112	ug/L	1.0		
P-BROMOFLUOROBENZENE	99	ug/L	1.0		
1,2-DICHLOROETHANE-D4	111	ug/L	1.0		

Report Notes: B, J

00000016A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** M013-1298

Matrix: WATER **SDG Name:** WO3912

Percent Solids: 0.00 **Lab Sample ID:** WO3912-008

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	66.9			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin ANALYTICAL SERVICES

CLIENT: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3912-8
Report Date: 01/07/99
PO No. : 97845L
Project : CHARLESTON, RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
M013-1298	Aqueous	CLIENT	12/08/98	12/09/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Alkalinity, as CaCO3	400.	mg/L	1.0	20	E310.1	12/11/98	JF	
Ferrous Iron	86.	mg/L	10	0.10	SM3500D	12/09/98	MD	
Nitrate as N	<0.050	mg/L	1.0	0.050	353.2	12/09/98	CF	
Sulfate	1.7	mg/L	1.0	1.0	375.4	12/15/98	MD	

* 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.

01/07/99

LJO/baelp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-8
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/12/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M013-1298	AQ	12/8/98	12/9/98	12/12/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~B13~~ 4'	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	~~E400~~ 390*	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	~~E1100~~ 990*	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J, E

* = Result Reported from diluted analysis

0000019

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-8
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/12/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M013-1298	AQ	12/8/98	12/9/98	12/12/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	~~E1000~~ 9900	ug/L	1.0	1	1
M+P-XYLENE	~~E5800~~ 6900	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	~~E2300~~ 2900	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	~~E370~~ 400	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	44	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	~~E300~~ 320	ug/L	1.0	1	1
TERT-BUTYLBENZENE	1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	~~E620~~ 1050	ug/L	1.0	1	1
SEC-BUTYLBENZENE	~~B2~~ 44	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	J0.8	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	~~B3~~ 4	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	~~B7~~	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	8	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	8	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J, E

0000020

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-8
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/12/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M013-1298	AQ	12/8/98	12/9/98	12/12/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	121	ug/L	1.0		
TOLUENE-D8	109	ug/L	1.0		
P-BROMOFLUOROBENZENE	127	ug/L	1.0		
1,2-DICHLOROETHANE-D4	126	ug/L	1.0		

Report Notes: B, J, E

0000020A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-8DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M013-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<100	ug/L	50	100	2
CHLOROMETHANE	<100	ug/L	50	100	2
VINYL CHLORIDE	<100	ug/L	50	100	2
BROMOMETHANE	<100	ug/L	50	100	2
CHLOROETHANE	<100	ug/L	50	100	2
TRICHLOROFLUOROMETHANE	<100	ug/L	50	100	2
1,1-DICHLOROETHENE	<50	ug/L	50	50	1
METHYLENE CHLORIDE	J36	ug/L	50	50	1
1,2-DICHLOROETHENE (TRANS)	<50	ug/L	50	50	1
1,1-DICHLOROETHANE	<50	ug/L	50	50	1
1,2-DICHLOROETHENE (CIS)	<50	ug/L	50	50	1
2,2-DICHLOROPROPANE	<50	ug/L	50	50	1
BROMOCHLOROMETHANE	<50	ug/L	50	50	1
CHLOROFORM	<50	ug/L	50	50	1
1,1,1-TRICHLOROETHANE	<50	ug/L	50	50	1
1,2-DICHLOROETHANE	<50	ug/L	50	50	1
1,1-DICHLOROPROPENE	<50	ug/L	50	50	1
CARBON TETRACHLORIDE	<50	ug/L	50	50	1
BENZENE	390	ug/L	50	50	1
1,2-DICHLOROPROPANE	<50	ug/L	50	50	1
TRICHLOROETHENE	<50	ug/L	50	50	1
CIS-1,3-DICHLOROPROPENE	<50	ug/L	50	50	1
DIBROMOMETHANE	<50	ug/L	50	50	1
BROMODICHLOROMETHANE	<50	ug/L	50	50	1
TOLUENE	990	ug/L	50	50	1
TRANS-1,3-DICHLOROPROPENE	<50	ug/L	50	50	1
1,1,2-TRICHLOROETHANE	<50	ug/L	50	50	1
1,3-DICHLOROPROPANE	<50	ug/L	50	50	1
DIBROMOCHLOROMETHANE	<50	ug/L	50	50	1
TETRACHLOROETHENE	<50	ug/L	50	50	1
1,2-DIBROMOETHANE	<50	ug/L	50	50	1
CHLOROBENZENE	<50	ug/L	50	50	1
1,1,1,2-TETRACHLOROETHANE	<50	ug/L	50	50	1

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-8DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M013-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	990	ug/L	50	50	1
M+P-XYLENE	6900	ug/L	50	50	1
BROMOFORM	<50	ug/L	50	50	1
O-XYLENE	2300	ug/L	50	50	1
STYRENE	<50	ug/L	50	50	1
1,1,2,2-TETRACHLOROETHANE	<50	ug/L	50	50	1
1,2,3-TRICHLOROPROPANE	<50	ug/L	50	50	1
ISOPROPYLBENZENE	400	ug/L	50	50	1
BROMOBENZENE	<50	ug/L	50	50	1
2-CHLOROTOLUENE	<50	ug/L	50	50	1
N-PROPYLBENZENE	J48	ug/L	50	50	1
4-CHLOROTOLUENE	<50	ug/L	50	50	1
1,3,5-TRIMETHYLBENZENE	320	ug/L	50	50	1
TERT-BUTYLBENZENE	<50	ug/L	50	50	1
1,2,4-TRIMETHYLBENZENE	650	ug/L	50	50	1
SEC-BUTYLBENZENE	<50	ug/L	50	50	1
1,3-DICHLOROBENZENE	<50	ug/L	50	50	1
P-ISOPROPYLTOLUENE	<50	ug/L	50	50	1
1,4-DICHLOROBENZENE	<50	ug/L	50	50	1
1,2-DICHLOROBENZENE	<50	ug/L	50	50	1
N-BUTYLBENZENE	<50	ug/L	50	50	1
1,2-DIBROMO-3-CHLOROPROPAN	<50	ug/L	50	50	1
1,2,4-TRICHLOROBENZENE	<50	ug/L	50	50	1
NAPHTHALENE	<50	ug/L	50	50	1
HEXACHLOROBUTADIENE	<50	ug/L	50	50	1
1,2,3-TRICHLOROBENZENE	<50	ug/L	50	50	1
ACETONE	<250	ug/L	50	250	5
2-BUTANONE	<250	ug/L	50	250	5
4-METHYL-2-PENTANONE	<150	ug/L	50	150	3
2-HEXANONE	<200	ug/L	50	200	4
TETRAHYDROFURAN	<50	ug/L	50	50	1
MTBE	<50	ug/L	50	50	1
VINYL ACETATE	<50	ug/L	50	50	1

Report Notes: B, J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-8DL
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
M013-1298	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	111	ug/L	50		
TOLUENE-D8	111	ug/L	50		
P-BROMOFLUOROBENZENE	104	ug/L	50		
1,2-DICHLOROETHANE-D4	107	ug/L	50		

Report Notes: B, J, O-2

0000022A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-9
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	~~B2~~ U1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000023

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-9
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	J3	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: B, J

0000024

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3912-9
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	12/8/98	12/9/98	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	114	ug/L	1.0		
TOLUENE-D8	110	ug/L	1.0		
P-BROMOFLUOROBENZENE	96	ug/L	1.0		
1,2-DICHLOROETHANE-D4	108	ug/L	1.0		

Report Notes: B, J

0000024A

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWOL12ICW1

Matrix: WATER **SDG Name:** WO3912

QC Batch ID: OL12ICW1

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

Analyte	RESULT	C
LEAD	1.350	B

6.750

FORM III (Part 2) - IN

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LC2WOL12ICW1

Matrix: WATER **SDG Name:** WO3912

QC Batch ID: OL12ICW1

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

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	508.29	101.7	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWOL12ICW1

Matrix: WATER **SDG Name:** WO3912

QC Batch ID: OL12ICW1

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

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	511.25	102.3	80	120

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** OL12ICW1

Matrix: WATER **SDG Name:** WO3912

Method: P **Prep Date:** 12/12/98

Client ID	Lab Sample ID	Initial (L)	Final (L)
LC2WOL12ICW1	LC2WOL12ICW1	0.05	0.05
LCSWOL12ICW1	LCSWOL12ICW1	0.05	0.05
PBWOL12ICW1	PBWOL12ICW1	0.05	0.05
M002-1298	WO3912-006	0.05	0.05
M005-1298	WO3912-007	0.05	0.05
M013-1298	WO3912-008	0.05	0.05

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WO3912

			METHOD BLANK RESULTS						LABORATORY CONTROL SAMPLE RESULTS					
Parameter	Date of Prep	Date of Analysis	Units		Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
Alkalinity	11-Dec-98	11-Dec-98	mg/L	<	20	<	20	20.0	mg/L	125	142	113.6	87-119	@
Ferrous Iron	09-Dec-98	09-Dec-98	mg/L	<	0.10	<	0.10	0.10	mg/L	150	146	97.3	80-120	
Nitrate-Nitrogen	09-Dec-98	09-Dec-98	mg/L	<	0.050	<	0.050	0.050	mg/L	1.00	0.968	96.8	80-120	
Sulfate	15-Dec-98	15-Dec-98	mg/L	<	1.0	<	1.0	1.0	mg/L	250	241	96.4	83-112	@

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

@ The laboratory uses the internally established statistical 99% confidence range as the acceptance range for this LCS.

00000029

Katahdin Analytical Services, Inc.
Quality Control Report

Duplicate and Matrix Spike/Matrix Spike Duplicate Results

Client: Roy F. Weston	
Work Order: WO3912	

			DUPLICATE RESULTS					*MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS*									
			Sample Measurements				Acceptance	Concentration or Quantity				Matrix Spike Recovery (%)					
Parameter	Katahdin Sample No	Units	Rep 1	Rep 2	Mean Conc	RPD (%)	Range for RPD (%)	Units	Sample Only	Spike Added	Sample +Spike Dup 1	Sample +Spike Dup 2	Sample +Spike Dup 1	Sample +Spike Dup 2	Acceptance Range (%)	RPD (%)	Acceptance Range (%)
Nitrate - N	WO3912-7	mg/L	0.372	0.365	0.369	1.9	0-20	mg/L	0.372	0.500	0.832		92.0		75-125		0-20

RPD = Relative percent difference, which is the absolute value of the difference between two replicate results divided by the mean concentration then multiplied by 100%.

DATA QUALITY COMMENTS:

Results of all quality control measurements are within the laboratory or contract specified acceptance range except as noted. The laboratory does not use the sample duplicate and matrix spike acceptance ranges as acceptance criteria for a specific analysis. Sample duplicate and matrix spike data are used to evaluate method performance in the environmental sample matrix only. Please refer to LCS data for assessment of quality control for each parameter.

000030

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS12A

Lab Name: Katahdin Analytical Services SDG No.: WO3912

Lab File ID: S2685 Lab Sample ID: VBLKS12A

Date Analyzed: 12/12/98 Time Analyzed: 10:36

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSS12A	LCSS12A	S2684	12/12/98	9:48:00 AM
M013-1298	WO3912-8	S2691	12/12/98	3:00:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS12A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/12/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS12A	AQ	-	-	12/12/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	2	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: J

0000032

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS12A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/12/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS12A	AQ	-	-	12/12/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	J0.5	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	J0.6	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	J0.5	ug/L	1.0	1	1
NAPHTHALENE	J0.9	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	J0.8	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: J

0000033

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS12A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/12/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS12A	AQ	-	-	12/12/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	110	ug/L	1.0		
TOLUENE-D8	112	ug/L	1.0		
P-BROMOFLUOROBENZENE	99	ug/L	1.0		
1,2-DICHLOROETHANE-D4	109	ug/L	1.0		

Report Notes: J

0000033A

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS14A

Lab Name: Katahdin Analytical Services SDG No.: WO3912

Lab File ID: S2704 Lab Sample ID: VBLKS14A

Date Analyzed: 12/14/98 Time Analyzed: 9:35

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSS14A	LCSS14A	S2703	12/14/98	8:56:00 AM
M013-1298	WO3912-8DL	S2708	12/14/98	12:26:00 PM
M002-1298MS	WO3912-6MS	S2710	12/14/98	1:41:00 PM
M002-1298MSD	WO3912-6MSD	S2711	12/14/98	2:20:00 PM
M002-1298	WO3912-6	S2713	12/14/98	3:36:00 PM
M005-1298	WO3912-7	S2714	12/14/98	4:15:00 PM
TB-2	WO3912-9	S2715	12/14/98	4:53:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS14A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS14A	AQ	-	-	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	2	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: J

0000035

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS14A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS14A	AQ	-	-	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	J0.5	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	J0.6	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: J

0000036

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS14A
Report Date: 1/26/99
PO No. : 97845L
Project: CHARLESTON, RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 12/14/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS14A	AQ	-	-	12/14/98	DJP	5030	DJP

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	115	ug/L	1.0		
TOLUENE-D8	112	ug/L	1.0		
P-BROMOFLUOROBENZENE	*98*	*ug/L*	*1.0*		
1,2-DICHLOROETHANE-D4	108	ug/L	1.0		

Report Notes: J

00000036A

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: S2684 | Sample ID: LCSS12A | Date Run: 12/12/98

Analyst: JSS | Time Injected 9:48:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1,2-TETRACHLOROETHANE	50	49.6	99	60-140
1,1,1-TRICHLOROETHANE	50	52.1	104	60-140
1,1,2,2-TETRACHLOROETHANE	50	50.2	100	60-140
1,1,2-TRICHLOROETHANE	50	51.0	102	60-140
1,1-DICHLOROETHANE	50	54.0	108	60-140
1,1-DICHLOROETHENE	50	53.6	107	60-140
1,1-DICHLOROPROPENE	50	51.3	103	60-140
1,2,3-TRICHLOROBENZENE	50	49.3	98	60-140
1,2,3-TRICHLOROPROPANE	50	34.7	69	60-140
1,2,4-TRICHLOROBENZENE	50	49.6	99	60-140
1,2,4-TRIMETHYLBENZENE	50	52.2	104	60-140
1,2-DIBROMO-3-CHLOROPROPANE	50	53.9	108	60-140
1,2-DIBROMOETHANE	50	50.6	101	60-140
1,2-DICHLOROBENZENE	50	52.1	104	60-140
1,2-DICHLOROETHANE	50	52.1	104	60-140
1,2-DICHLOROETHENE (CIS)	50	51.0	102	60-140
1,2-DICHLOROETHENE (TRANS)	50	55.1	110	60-140
1,2-DICHLOROPROPANE	50	48.8	98	60-140
1,3,5-TRIMETHYLBENZENE	50	52.3	104	60-140
1,3-DICHLOROBENZENE	50	50.9	102	60-140
1,3-DICHLOROPROPANE	50	50.8	102	60-140
1,4-DICHLOROBENZENE	50	50.6	101	60-140
2,2-DICHLOROPROPANE	50	52.2	104	60-140
2-BUTANONE	50	40.9	82	60-140
2-CHLOROTOLUENE	50	51.4	103	60-140
2-HEXANONE	50	41.9	84	60-140
4-CHLOROTOLUENE	50	51.7	103	60-140
4-METHYL-2-PENTANONE	50	46.8	94	60-140
ACETONE	50	29.9	*60	60-140
BENZENE	50	52.0	104	60-140
BROMOBENZENE	50	50.4	101	60-140
BROMOCHLOROMETHANE	50	51.1	102	60-140
BROMODICHLOROMETHANE	50	52.2	104	60-140
BROMOFORM	50	50.4	101	60-140
BROMOMETHANE	50	45.1	90	60-140
CARBON TETRACHLORIDE	50	51.6	103	60-140
CHLOROBENZENE	50	50.9	102	60-140
CHLOROETHANE	50	53.4	107	60-140
CHLOROFORM	50	49.6	99	60-140
CHLOROMETHANE	50	61.5	123	60-140
CIS-1,3-DICHLOROPROPENE	50	54.2	108	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: S2684 **Sample ID:** LCSS12A **Date Run:** 12/12/98

Analyst: JSS **Time Injected** 9:48:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
DIBROMOCHLOROMETHANE	50	52.9	106	60-140
DIBROMOMETHANE	50	48.6	97	60-140
DICHLORODIFLUOROMETHANE	50	64.4	129	60-140
ETHYLBENZENE	50	52.2	104	60-140
HEXACHLOROBUTADIENE	50	46.2	92	60-140
ISOPROPYLBENZENE	50	52.8	106	60-140
M+P-XYLENE	75	104	138	60-140
METHYLENE CHLORIDE	50	45.5	91	60-140
MTBE	50	48.4	97	60-140
N-BUTYLBENZENE	50	51.9	104	60-140
N-PROPYLBENZENE	50	51.3	102	60-140
NAPHTHALENE	50	51.7	103	60-140
O-XYLENE	50	51.7	103	60-140
P-ISOPROPYLTOLUENE	50	52.1	104	60-140
SEC-BUTYLBENZENE	50	51.2	102	60-140
STYRENE	50	51.9	104	60-140
TERT-BUTYLBENZENE	50	52.2	104	60-140
TETRACHLOROETHENE	50	50.4	101	60-140
TETRAHYDROFURAN	50	47.7	95	60-140
TOLUENE	50	50.9	102	60-140
TRANS-1,3-DICHLOROPROPENE	50	51.3	103	60-140
TRICHLOROETHENE	50	51.0	102	60-140
TRICHLOROFLUOROMETHANE	50	54.7	109	60-140
VINYL ACETATE	50	49.4	99	60-140
VINYL CHLORIDE	50	61.2	122	60-140

*** Out of Limits**

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: S2703 **Sample ID:** LCSS14A **Date Run:** 12/14/98

Analyst: DJP **Time Injected** 8:56:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1,2-TETRACHLOROETHANE	50	50.3	100	60-140
1,1,1-TRICHLOROETHANE	50	51.9	104	60-140
1,1,2,2-TETRACHLOROETHANE	50	51.6	103	60-140
1,1,2-TRICHLOROETHANE	50	51.1	102	60-140
1,1-DICHLOROETHANE	50	55.2	110	60-140
1,1-DICHLOROETHENE	50	55.2	110	60-140
1,1-DICHLOROPROPENE	50	48.8	98	60-140
1,2,3-TRICHLOROBENZENE	50	46.9	94	60-140
1,2,3-TRICHLOROPROPANE	50	34.2	68	60-140
1,2,4-TRICHLOROBENZENE	50	47.6	95	60-140
1,2,4-TRIMETHYLBENZENE	50	52.5	105	60-140
1,2-DIBROMO-3-CHLOROPROPANE	50	50.4	101	60-140
1,2-DIBROMOETHANE	50	50.5	101	60-140
1,2-DICHLOROBENZENE	50	51.4	103	60-140
1,2-DICHLOROETHANE	50	51.4	103	60-140
1,2-DICHLOROETHENE (CIS)	50	54.4	109	60-140
1,2-DICHLOROETHENE (TRANS)	50	57.1	114	60-140
1,2-DICHLOROPROPANE	50	49.1	98	60-140
1,3,5-TRIMETHYLBENZENE	50	51.4	103	60-140
1,3-DICHLOROBENZENE	50	50.6	101	60-140
1,3-DICHLOROPROPANE	50	50.5	101	60-140
1,4-DICHLOROBENZENE	50	50.2	100	60-140
2,2-DICHLOROPROPANE	50	52.8	106	60-140
2-BUTANONE	50	43.9	88	60-140
2-CHLOROTOLUENE	50	50.3	100	60-140
2-HEXANONE	50	41.9	84	60-140
4-CHLOROTOLUENE	50	52.1	104	60-140
4-METHYL-2-PENTANONE	50	49.1	98	60-140
ACETONE	50	32.8	66	60-140
BENZENE	50	52.4	105	60-140
BROMOBENZENE	50	48.7	97	60-140
BROMOCHLOROMETHANE	50	54.0	108	60-140
BROMODICHLOROMETHANE	50	51.9	104	60-140
BROMOFORM	50	48.0	96	60-140
BROMOMETHANE	50	47.3	94	60-140
CARBON TETRACHLORIDE	50	47.5	95	60-140
CHLOROBENZENE	50	51.0	102	60-140
CHLOROETHANE	50	55.0	110	60-140
CHLOROFORM	50	51.9	104	60-140
CHLOROMETHANE	50	58.3	116	60-140
CIS-1,3-DICHLOROPROPENE	50	55.2	110	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: S2703 | Sample ID: LCSS14A | Date Run: 12/14/98

Analyst: DJP | Time Injected 8:56:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
DIBROMOCHLOROMETHANE	50	52.1	104	60-140
DIBROMOMETHANE	50	49.2	98	60-140
DICHLORODIFLUOROMETHANE	50	57.0	114	60-140
ETHYLBENZENE	50	51.4	103	60-140
HEXACHLOROBUTADIENE	50	43.1	86	60-140
ISOPROPYLBENZENE	50	50.9	102	60-140
M+P-XYLENE	75	103	138	60-140
METHYLENE CHLORIDE	50	48.9	98	60-140
MTBE	50	50.1	100	60-140
N-BUTYLBENZENE	50	50.5	101	60-140
N-PROPYLBENZENE	50	50.0	100	60-140
NAPHTHALENE	50	50.2	100	60-140
O-XYLENE	50	50.4	101	60-140
P-ISOPROPYLTOLUENE	50	51.2	102	60-140
SEC-BUTYLBENZENE	50	51.1	102	60-140
STYRENE	50	51.8	104	60-140
TERT-BUTYLBENZENE	50	51.2	102	60-140
TETRACHLOROETHENE	50	47.5	95	60-140
TETRAHYDROFURAN	50	51.5	103	60-140
TOLUENE	50	52.8	106	60-140
TRANS-1,3-DICHLOROPROPENE	50	50.5	101	60-140
TRICHLOROETHENE	50	50.7	101	60-140
TRICHLOROFLUOROMETHANE	50	51.2	102	60-140
VINYL ACETATE	50	50.2	100	60-140
VINYL CHLORIDE	50	56.1	112	60-140

* Out of Limits

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3912-6	S2713	12/14/98	3:36:00 PM	DJP	AQ	ESTON82
WO3912-6MS	S2710	12/14/98	1:41:00 PM	DJP	AQ	ESTON82
WO3912-6MSD	S2711	12/14/98	2:20:00 PM	DJP	AQ	eston826

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
BUTANONE	0	50	50	41.9	40.4	84	81	80-120	3.6	20
ROMOCHLOROMETHANE	0	50	50	51.1	48.2	102	96	80-120	5.8	20
1,3,5-TRIMETHYLBENZENE	0	50	50	45.1	42.6	90	85	80-120	5.7	20
-DICHLOROBENZENE	0	50	50	46.2	43.8	92	88	80-120	5.3	20
-DICHLOROBENZENE	0	50	50	46.2	43.8	92	88	60-140	5.3	30
1,3-DICHLOROPROPANE	0	50	50	48.8	46.8	98	94	80-120	4.2	20
4-DICHLOROBENZENE	0	50	50	45.0	43.9	90	88	80-120	2.5	20
-DICHLOROETHENE (TRANS)	0	50	50	47.6	45.7	95	91	80-120	4.1	20
2,2-DICHLOROPROPANE	0	50	50	44.6	41.4	89	83	80-120	7.4	20
1,2-DICHLOROETHENE (CIS)	0	50	50	47.8	45.8	96	92	80-120	4.3	20
CHLOROTOLUENE	0	50	50	44.9	42.5	90	85	80-120	5.5	20
EXANONE	0	50	50	39.1	36.8	*78	*74	80-120	6.1	20
4-CHLOROTOLUENE	0	50	50	46.8	44.3	94	89	80-120	5.5	20
METHYL-2-PENTANONE	0	50	50	47.2	44.3	94	88	80-120	6.3	20
ETONE	5.89	50	50	34.2	33.3	*57	*55	80-120	2.7	20
BENZENE	0	50	50	46.7	43.4	93	87	80-120	7.3	20
1,1,2-TETRACHLOROETHANE	0	50	50	46.6	43.6	93	87	80-120	6.6	20
-DICHLOROBENZENE	0	50	50	45.0	43.9	90	88	60-140	2.5	30
2,4-TRICHLOROBENZENE	0	50	50	44.9	41.4	90	83	80-120	8.1	20
1,1,1-TRICHLOROETHANE	0	50	50	43.9	41.3	88	82	80-120	6.1	20
2,2-TETRACHLOROETHANE	0	50	50	50.5	47.4	101	95	80-120	6.3	20
2-TRICHLOROETHANE	0	50	50	49.6	45.6	99	91	80-120	8.4	20
1,1-DICHLOROETHANE	0	50	50	48.4	46.2	97	92	80-120	4.6	20
-DICHLOROETHENE	0	50	50	46.5	42.9	93	86	80-120	8.0	20
-DICHLOROPROPENE	0	50	50	42.1	38.9	84	*78	80-120	7.9	20
2-DICHLOROPROPANE	0	50	50	46.8	44.1	94	88	80-120	5.9	20
1,2,3-TRICHLOROPROPANE	0	50	50	33.3	31.6	*66	*63	80-120	5.2	20
OMODICHLOROMETHANE	0	50	50	48.8	46.6	98	93	80-120	4.6	20
,4-TRICHLOROBENZENE	0	50	50	44.9	41.4	90	83	60-140	8.1	30
1,2,4-TRIMETHYLBENZENE	0	50	50	45.4	43.7	91	87	80-120	3.8	20
-DIBROMO-3-CHLOROPROPANE	0	50	50	48.3	44.3	97	88	80-120	8.6	20
-DIBROMOETHANE	0	50	50	49.7	46.9	99	94	80-120	5.8	20
1,2-DICHLOROBENZENE	0	50	50	47.8	46.1	96	92	80-120	3.6	20
-DICHLOROBENZENE	0	50	50	47.8	46.1	96	92	60-140	3.6	30
-DICHLOROETHANE	0	50	50	49.4	47.0	99	94	80-120	5.0	20
2,3-TRICHLOROBENZENE	0	50	50	45.5	42.6	91	85	80-120	6.6	20
TERT-BUTYLBENZENE	0	50	50	43.3	40.8	86	82	80-120	5.9	20
OMOBENZENE	0	50	50	46.3	44.3	92	88	80-120	4.4	20
ROPYLBENZENE	0	50	50	43.0	41.0	86	82	80-120	4.8	20
NAPHTHALENE	0	50	50	47.6	46.5	95	93	80-120	2.3	20
PHTHALENE	0	50	50	47.6	46.5	95	93	60-140	2.3	30
XYLENE	0	50	50	46.4	43.8	93	88	80-120	5.8	20
P-ISOPROPYLTOLUENE	0	50	50	43.2	41.0	86	82	80-120	5.2	20
MTBE	0	50	50	47.6	46.5	95	93	80-120	2.3	20

RPD =[(ms res - msd res) / (ms res + msd res)/2] * 100 * Out of Limits

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3912-6	S2713	12/14/98	3:36:00 PM	DJP	AQ	ESTON82
WO3912-6MS	S2710	12/14/98	1:41:00 PM	DJP	AQ	ESTON82
WO3912-6MSD	S2711	12/14/98	2:20:00 PM	DJP	AQ	eston826

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
STYRENE	*0*	*50*	*50*	*47.8*	*45.2*	*96*	*90*	*80-120*	*5.6*	*20*
METHYLENE CHLORIDE	3.03	50	50	47.8	45.7	89	85	80-120	4.5	20
TETRACHLOROETHENE	0	50	50	40.8	38.0	82	*76	80-120	7.1	20
TETRAHYDROFURAN	0	50	50	46.8	46.1	94	92	80-120	1.5	20
TOLUENE	0.520	50	50	46.1	43.7	91	86	80-120	5.3	20
TRANS-1,3-DICHLOROPROPENE	0	50	50	50.4	48.9	101	98	80-120	3.0	20
TRICHLOROETHENE	0	50	50	42.9	41.2	86	82	80-120	4.0	20
TRICHLOROFLUOROMETHANE	0	50	50	44.5	40.6	89	81	80-120	9.2	20
VINYL ACETATE	0	50	50	50.1	47.8	100	96	80-120	4.7	20
SEC-BUTYLBENZENE	0	50	50	41.8	39.2	84	*78	80-120	6.4	20
DIBROMOCHLOROMETHANE	0	50	50	49.6	47.1	99	94	80-120	5.2	20
BROMOFORM	0	50	50	47.0	44.5	94	89	80-120	5.5	20
BROMOMETHANE	0	50	50	33.1	35.4	*66	*71	80-120	6.7	20
CARBON TETRACHLORIDE	0	50	50	41.3	38.1	83	*76	80-120	8.1	20
CHLOROBENZENE	0	50	50	46.8	43.1	94	86	80-120	8.2	20
CHLOROETHANE	0	50	50	46.6	42.7	93	85	80-120	8.7	20
CHLOROFORM	0	50	50	46.6	43.8	93	88	80-120	6.2	20
N-BUTYLBENZENE	0	50	50	42.8	40.0	86	80	80-120	6.8	20
CIS-1,3-DICHLOROPROPENE	0	50	50	48.1	45.7	96	91	80-120	5.1	20
VINYL CHLORIDE	0	50	50	44.6	43.6	89	87	80-120	2.3	20
DIBROMOMETHANE	0	50	50	47.2	46.3	94	92	80-120	1.9	20
DICHLORODIFLUOROMETHANE	0	50	50	45.7	43.9	91	88	80-120	4.0	20
ETHYLBENZENE	0	50	50	45.7	42.5	91	85	80-120	7.2	20
HEXACHLOROBUTADIENE	*0*	*50*	*50*	*35.8*	*33.7*	**72*	**67*	*80-120*	*6.0*	*20*
HEXACHLOROBUTADIENE	0	50	50	35.8	33.7	72	67	60-140	6.0	30
ISOPROPYLBENZENE	0	50	50	43.5	41.4	87	83	80-120	4.9	20
M+P-XYLENE	0.520	100	100	93.1	85.3	93	85	80-120	8.7	20
CHLOROMETHANE	0	50	50	47.3	46.4	94	93	80-120	1.9	20

RPD =[(ms res - msd res) / (ms res + msd res)/2] * 100

*** Out of Limits**

The State of New Hampshire
Department of Environmental Services

CERTIFICATE OF APPROVAL
Wastewater Analysis

Issued to
Katahdin Analytical Services

Located at
340 County Road, #5, Westbrook, ME

Under the provisions of the Regulations in Env-C300 for the following analyses:

FULL CERTIFICATION: PCB's in Oil, Pesticides, Volatile Organics, PCB's in Water, Chloride, Arsenic, Aluminum, Specific Conductance, TDS, Total Hardness, Calcium, Magnesium, Sodium, Beryllium, Total Alkalinity, Titanium, Fluoride, Sulfate, Ammonia-N, Nitrate-N, Orthophosphate, Potassium, Oil & Grease (Freon), Manganese, Nickel, Lead, Selenium, Vanadium, Zinc, Cadmium, Silver, Mercury, Molybdenum, TKN, Iron, Copper, Chromium, Cobalt, Strontium, Fecal Coliform by MF, Antimony, Carbonaceous BOD, TOC, 5-Day BOD, pH, Thallium, Non-Filterable Residue, Total Phenolics, COD, Total Cyanide.

PROVISIONAL CERTIFICATION: Total Phosphorus.

REPLACES CERFICATE #: 200198-B

CERTIFICATE NUMBER: 200198-D

DATE OF ISSUE: July 07, 1998

EXPIRATION DATE: April 02, 1999

Charles M. Wyer
Certifying Officer

LITHO IN U.S.A.
© ODES 746

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W0 3812

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: Roy. Weston

PROJECT: Charleston RI Site 8

COC#
SDG#
DATE / TIME RECEIVED: 12/4/98 0915
DELIVERED BY: FED EX
RECEIVED BY: KAS
LIMS ENTRY BY: KAS
LIMS REVIEW BY / PM: K Pepin

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☒	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☒	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☒	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☒	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☒	☐	☐	TEMP BLANK TEMP (°C)= 5.5	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☒	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☒	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☒	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☒	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☒	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☒	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☒	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

00000044

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WO-3912

Project Manager: Lil Pepin
ORDER DATE: 12/09/98
PHONE: 603/656-5467
FAX: 603/656-5401
DUE: 23 DEC

REPORT TO: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: V. DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5467
PO: 97845L

PROJECT: CHARLESTON, RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 08 JAN

ORDER NOTE: QC-II+
CHARLESTON, RI SITE 8

INVOICE: With Report

TOTAL ORDER AMOUNT $629.00
This is NOT an Invoice

KR/LP/WEST.LP(dw)
12-22Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

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

Client: Roy F. Weston Inc
Contact: Vinnie DelloRusso
Phone #: (603) 656-5467
Fax #: (603) 656-5401

Address: one Wall St.
City: Manchester
State: NH
Zip Code: 03101

Purchase Order #:
Proj. Name / No.: Uniroyal RI STE 8
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Vincent DelloRusso
Copies To:

LAB USE ONLY
WORK ORDER #: WO:3912
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 5030B/8260B 3x40ml w/HCl	TL Lead 3010/6010B 1x125ml w/HNO3	Alkalinity 310.1 1x250ml unpres.	Nitrate 300 1x250ml unpres.	Sulfate 300 1x250ml unpres.	Ferrous Iron 3500D 1x250ml w/HCl				
					Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	M001-1298	12/8/98/1535	W	1						1				
	M002-1298	12/8/98/0950	W	8	3	1	1	1	1	1				
	M003-1298	12/8/98/1500	W	1						1				
	M004-1298	12/8/98/1420	W	1						1				
	M005-1298	12/8/98/1150	W	8	3	1	1	1	1	1				
	M012-1298	12/8/98/1350	W	1						1				
	M112-1298	12/8/98/1350	W	1						1				
	M013-1298	12/8/98/1235	W	8	3	1	1	1	1	1				
	TB-2	12/8/98/0700	W	3	3	Lab prepared								
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: No MS/MSD. LCS/Method Blank required
Temp. Blanks in cooler

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	12/8/98 6pm	FEDEX			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[signature]	12/9/98	0915	

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WO-3912

Project Manager: Lil Pepin
ORDER DATE: 12/09/98
PHONE: 603/656-5467
FAX: 603/656-5401
DUE: 23 DEC

REPORT TO: VINCENT DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: V. DELLORUSSO
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5467
PO: 97845L

PROJECT: CHARLESTON, RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 08 JAN

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WO3912-1	M001-1298	08 DEC 1535	09 DEC	AQ
	WO3912-2	M003-1298	08 DEC 1500		
	WO3912-3	M004-1298	08 DEC 1420		
	WO3912-4	M012-1298	08 DEC 1350		
	WO3912-5	M112-1298	08 DEC 1350		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Ferrous Iron	SM3500D	5	0.00	0.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WO3912-6	M002-1298	08 DEC 1500	09 DEC	AQ
	WO3912-7	M005-1298	08 DEC 1150		
	WO3912-8	M013-1298	08 DEC 1235		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Lead, Total	200.7/6010	3	21.00	63.00
Alkalinity, as CaCO3	E310.1	3	11.00	33.00
Nitrate as N	353.2	3	11.00	33.00
Sulfate	375.4	3	20.00	60.00
Ferrous Iron	SM3500D	3	0.00	0.00
VOAs (8260)	EPA 8260	3	110.00	330.00
TOTALS		3	173.00	519.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
3	WO3912-9	TB-2	08 DEC 0700	09 DEC	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
VOAs (8260)	EPA 8260	1	110.00	110.00

LABORATORY ORDER CONTINUED ON PAGE 2

APPENDIX C-2

SOIL SAMPLE ANALYTICAL DATA

Inter-Office Memorandum

TO: Vinnie Dellorusso CC:

FROM: Diane Quigley DATE: 31 December 1998

PROJECT: Charlestown, RI W. O. NO.: 10971-036-001-0010-01

SUBJECT: Data Review of WO-3179:

Samples: S001-1098-12/13, S002-1098-8/9.6, S101-1098-14.3/15.2, S001-1098-14.3/15.2, S002-1098-12.7/13.6, S004-1098-12.3/13.3, S003-1098-4.504-1098-8/10, S006-1098-13.5/14, and S007-1098-4.5/5.5.

TB-1: H001-1098, H101-1098, H201-1098, H003-1098, H005-1098, H006A-1098, H007-1098, H008-1098, H009-1098, H010-1098, and H004-1098.

ACTION:

Volatile (8260B), semivolatile (8270C), lead and GRO data submitted by Katahdin for the above-listed samples were reviewed. Chain-of-custodies were reviewed to verify methodologies, sample preservation, and to ensure holding times were met.

The laboratory was contacted on 17 December 1998 (telephone log is attached) and asked to resubmit volatile soil result pages with PQLs that matched the QAPP. Also, to identify associated samples with each prep blank in the metals analysis. The resubmittal was received on 21 December 1998.

The following discrepancies were noted and qualifications added:

- J^1/UJ^1 – Field duplicate samples S001-1098-14.3/15.2 and S101-1098-14.3/15.2 did not meet %RDP criteria. All results in both samples will be estimated.

- J^2/UJ^2 – One or more surrogates did not meet criteria.

- J^3 – Sample H007-1098; estimate positive results for isopropylbenzene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene since results were over the calibration range of the instrument.

- U^1 – Qualify positive results for methylene chloride, acetone and/or total xylene due to laboratory blank or field blank contamination.

Semi-volatile

J^5/UJ^5-Positive and non-detected results for 2.4-dimethylphenol, 2-methylnapthalene, and hexachlorocyclopentadiene in soil samples were estimated due to low LCS recoveries.

Lead

U^2 – Qualify the positive lead result in Sample H201-1098 as undetected (U^2) due to prep. blank contamination.

J^4 – Estimate lead results in all ~~water~~ sp/pwater samples since lab duplicate criteria was not met.

GRO

J^2 – Estimate positive the GRO result in Sample S001-1098-14.3/15.2 due to high surrogate recoveries.

All qualifiers were added to result pages. Footnotes explaining qualifiers should be presented at the bottom of the analytical result table.

If you have any questions, please call me at x5534. "Data Review Checklists," telephone logs and resubmittals are attached.

DQ:day

Lead

Attachments

DATA REVIEW CHECKLIST

Site: Charleston, RI

Katahdin Lab Number: WO-3179

WESTON Sample IDs: H001-1098; H101-1098, H201-1098 (rinsate)
H003-1098; H005-1098; H006A-1098
H007-1098; H008-1098; H009; H010-1098
H004-1098

Data Reviewed	Fraction						Comments
	TS	Lead	GRO	8260B	8270C		
Chain of Custody							
Log-in Sheet							
Preservation							
Holding Time							
~~Trip Blanks~~/Rinsate		H201 - 1.8ug/L		H201 U			U TB MeCl2 = 4ug/L; Acetone = 5ug/L TB; EB Total xylene ork
Instrument/Method Blanks (soils/solids)							
Instrument/Method Blanks (Aqueous)							
MS/MSD - Soil/Solid							
MS/MSD - Aqueous							
LCS/LFB		✓					
~~Blank Spikes (BS/BSD)~~ calibration				J3			
~~Lab Duplicates~~ Trip Blank			TB-1 = MeCl2 = 4ug/L; Acetone = 5ug/L				
Field Duplicates				H001/H101 ✓			
Surrogate Recoveries				J2/UJ2			

Lab Dup (~~Metals~~) Lead ~~12/13~~ 14 ~~RPD 24K~~ - lab dup in waters did not meet 90RPD

✓ = Data reviewed

NA = Not Applicable

Note: Data reviewed but not commented on is considered acceptable.

Qualifiers Used:

J3 - H007-1098 - Dilution for VOA 8260 not included
Lil Peppin called 12/8/98 - see new case narrative; all E results estimated

J2/UJ2 - ~~two~~ one or more surrogates out; pos + non-detected results in H008-1098 and H010-1098 were estimated

Data Reviewer Initials: DG

Date: 12/14/98

DATA REVIEW CHECKLIST

Site: Charleston, RI

Katahdin Lab Number: WO-3179

WESTON Sample IDs: S001-1098-12/13, S002-1098-8/9.6, S101-1098-14.3/15.2
S001-1098-14.3/15.2; S002-1098-12.7/13.6; S004-1098-12.3/1
S003-1098-8/9; S004-1098-8/10; S006-1098-13.5/14; S007-1098-4.5
S005-1098-15/16; S003-1098-12.5/14
TB-1
S103-1098-12.5

Data Reviewed	Fraction: TS	Lead	SW8015M GRO	8260	8270B ~~SVOA~~		Comments
Chain of Custody	✓						
Log-in Sheet	✓						
Preservation	✓						
Holding Time	✓						
Trip Blanks			✓	meCl2 = 1500 ug/kg Acetone = 380			TB-1 - U1 Qualify meCl2 + acetone in samples below 10x action level as undetected
Instrument/Method Blanks (soils/solids)	✓		✓				
Instrument/Method Blanks (Aqueous)		U2					U2 Qualify lead in H201-1098 as undetected since it was in prep blank 2.830x5 = 14.150 action level
MS/MSD - Soil/Solid							
MS/MSD - Aqueous							
LCS/LFB			✓		J5/UJ5		Soil LCS - 2,4-dimethylphenol 2-methylnaphthalene hexachlorocyclopentadiene J5/UJ5 in all soil
Blank Spikes (BS/BSD)							
Lab Duplicates		S001-1098-12/13					
Field Duplicates				J1/UJ1	S003 S103 ✓		VOA S001-1098-14.3/15.2 + S101-1098-14.3/15.2
Surrogate Recoveries			J2	✓	✓		

✓ = Data reviewed
NA = Not Applicable
Note: Data reviewed but not commented on is considered acceptable.

Qualifiers Used:
VOA = Field Dup — S001 - meCl2, ~~1100~~ 370 DF 59: total xylene 150J
S101 - meCl2 = 1100 DF 140: total xylene = 1700

J1/UJ1 - All results in both samples will be estimated due to poor field dup results

J2 - Estimate pos GRO result in S001-1098-14.3/15.2 due to high surr. recov.

Data Reviewer Initials: DQ

Date: 12/16/98

U1 -

G:\PROJECTS\03886112\021\DATA\VALMEMO.DOC

Resubmittals
12/21/98

Katahdin
ANALYTICAL SERVICES

December 17, 1998

Ms. Diane Quigley
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

Dear Ms. Quigley:

Katahdin Analytical has received and reviewed your fax of December 10, 1998. After conversations between you and Vincent DelloRusso with representatives of Katahdin Analytical Services the following represents a summary of items to be addressed.

1) Corrected reports of analysis (ROA's) previously re- submitted ROA's did not have the detection limits as stated in table 5-1 for aqueous samples. Please find enclosed the following samples WO3179-22, 23,24,25,26,27,28,29,30,31,33, and 34.

2) Request for Metals Form III's, and Metals Form XIII's for WO3179. Please find enclosed a copy of these forms which were faxed to you 12/17/98.

3) Updated Case Narrative to address E flagged VOA data, and discussion of semi-volatile method performed versus that stated on the ROA. Please find enclosed an updated Case Narrative for WO3179.

4) An attachment that presents definitions of Metals Headers. Please find enclosed a copy of definitions used for the Metals Headers.

Katahdin work order WO3344-1 GC/MS volatile report showed an extra character in the sample description field. The analytical laboratory included the bottle id for example (E) in the sample field in the instrument software. The parentheses indicate that this letter is part of a sample id and causes this character to transfer electronically and append to the sample description on the report of analysis. The letter that is appended to the client sample id therefore will also appear in parentheses in the header of the instrument printout. Evaluation of the affected samples in this workorder reveals that this also occurred on samples WO3344-2, 3,4 and 7 analyzed on the Z instrument 11/3/98.

We hope this resolves any issues and or questions regarding the Charleston RI site. If you have any further questions or problems please contact either Lil Pepin or me at (207)-874-2400. We look forward to our continued work with Roy F. Weston, and apologize for the difficult position in which our errors have placed you.

Sincerely
Katahdin Analytical Services, Inc.

John C. Burton

John C. Burton
Operations Manager

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

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
B	'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-1	Sample dilution required due to matrix interference, sample viscosity or other matrix-related problem; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin
ANALYTICAL SERVICES

December 18, 1998

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE: Katahdin Lab Number: WO3179
Project ID: Charleston, RI Site
Project Manager: Ms. Lil Pepin
Sample Receipt Date: October 16, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Reissued Report of Analytical Results (ROAs) for aqueous volatile analyses of samples WO3179-22, 23, 24, 25, 26, 27, 28, 29, 30, 30, 31, 33, and 34. These reissued ROAs have been corrected to reflect the correct aqueous detection limits cited in table 5-1. The resubmitted pages have been paginated to be inserted into the original report.

Due to an error in the Sample Receipt and Project Management the samples were logged in incorrectly. We apologize for any inconvenience our errors may have caused you.

Some samples for volatile organic analysis have analytes that are reported with E flags. The use of E flags denotes that the sample concentration exceeds the upper level of instrument calibration. Evaluation of the data reveals that the compounds qualified with E flags were not logged in originally since the incorrect determination code (DET) was used. The instrument lab did not in all cases perform a reanalysis for these overcal compounds; some samples were reanalyzed on dilution these diluted runs have been enclosed.

The Report of Analytical Results (ROAs) for the Semi-Volatile organic analysis reference method 8270B. The work plan called for analysis performed in accordance with method 8270C. The laboratory performed instrument analysis in accordance with the more recent SW-846 revision 8270C. The determination code (DET) that the samples were logged in under referenced 8270B therefore this appeared in the report headers. The essential differences between 8270B and 8270C are found in the calibration criteria for Calibration Verification and Initial Calibration. The laboratory used the method 8270C criteria which is 15% RSD for the target analytes and the use of 6 calibration levels if a second order equation is employed for analytes which exceed 15%. The Coefficient of Determination (COD) is 0.99.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter and narrative is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

340 Country 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

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Jack C. Burton
Authorized Signature

12/18/98
Date

340 Country 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

C. Inorganic Analysis Data Sheet [FORM I-IN]

This form is used to tabulate and report sample analysis results for target analytes (Exhibit C).

Complete the header information according to the instructions in Part A and as follows.

"Date Received" is the date (formatted MM/DD/YY) of sample receipt at the laboratory, as recorded on the Traffic Report, i.e., the Verified Time of Sample Receipt (VTSR).

"% Solids" is the percent of solids on a weight/weight basis in the sample as determined by drying the sample as specified in Exhibit D. Report percent solids to one decimal place (i.e., 5.3%). If the percent solids is not required because the sample is fully aqueous or less than 1% solids, then enter "0.0."

Enter the appropriate concentration units (UG/L for water or MG/KG dry weight for soil). Entering "MG/KG" means "mg/Kg dry weight" on this form.

Under the column labeled "Concentration," enter for each analyte either the value of the result (if the concentration is greater than or equal to the Instrument Detection Limit) or the Instrument Detection Limit for the analyte corrected for any dilutions (if the concentration is less than the Instrument Detection Limit). The concentration result shall be reported to two significant figures if the result is less than 10; to three significant figures if the value is greater than or equal to 10.

Under the columns labeled "C," "Q," and "M," enter result qualifiers as identified below. If additional qualifiers are used, their explicit definitions shall be included on the Cover Page in the Comments section.

FORM I-IN includes fields for three types of result qualifiers. These qualifiers shall be completed as follows:

- C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Practical Quantitation Level (PQL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

- Q qualifier -- Specified entries and their meanings are as follows:

  E - The reported value is estimated because of the presence of interference. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

  M - Duplicate injection precision not met.

  N - Spiked sample recovery not within control limits.

  S - The reported value was determined by the Method of Standard Additions (MSA).

  W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance. (See Exhibit E.)

  * - Duplicate analysis not within control limits.

  + - Correlation coefficient for the MSA is less than 0.995.

  Entering "S," "W," or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

- M (Method) qualifier -- Enter:

  - "P" for ICP
  - "A" for Flame AA
  - "F" for Furnace AA
  - "PM" for ICP when Microwave Digestion is used
  - "AM" for flame AA when Microwave Digestion is used
  - "FM" for Furnace AA when Microwave Digestion is used
  - "CV" for Manual Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "CA" for Midi-Distillation Spectrophotometric
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - " " where no data have been entered
  - "NR" if the analyte is not required to be analyzed.

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSOJ20ICS1

Matrix: SOIL **SDG Name:** WO3179

QC Batch ID: OJ20ICS1

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

Analyte	RESULT	C
LEAD	0.288	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWOJ20ICW1

Matrix: WATER **SDG Name:** WO3179

QC Batch ID: OJ20ICW1

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

Analyte	RESULT	C
LEAD	2.830	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWOJ24ICW2

Matrix: WATER **SDG Name:** WO3179

QC Batch ID: OJ24ICW2

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

Analyte	RESULT	C
LEAD	1.820	B

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID: OJ20ICS1**

Matrix: SOIL **SDG Name: WO3179**

Method: P **Prep Date: 10/20/98**

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSOJ20ICS1	LCSSOJ20ICS1	0.5	0.1
PBSOJ20ICS1	PBSOJ20ICS1	1	0.1
S001-1098-12/13	WO3179-001	1.33	0.1
S001-1098-12/13	WO3179-001A	1.33	0.1
S001-1098-12/13D	WO3179-001D	1.35	0.1
S001-1098-12/13S	WO3179-001S	1.39	0.1
S002-1098-8/9.6	WO3179-002	1.53	0.1
S001-1098-14.3/15.2	WO3179-004	1.3	0.1
S002-1098-12.7/13.6	WO3179-005	1.35	0.1
S004-1098-12.3/13.3	WO3179-006	1.23	0.1
S003-1098-8/9	WO3179-007	1.23	0.1
S004-1098-8/10	WO3179-008	1.11	0.1
S006-1098-13.5/14	WO3179-009	1.51	0.1
S007-1098-4.5/5.5	WO3179-010	1.17	0.1
S005-1098-15/16	WO3179-011	1.25	0.1
S003-1098-12.5/14	WO3179-012	1.96	0.1
S103-1098-12.5/14	WO3179-039	1.17	0.1

13

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** OJ20ICW1

Matrix: WATER **SDG Name:** WO3179

Method: P **Prep Date:** 10/20/98

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWOJ20ICW1	LCSWOJ20ICW1	0.05	0.05
PBWOJ20ICW1	PBWOJ20ICW1	0.05	0.05
H001-1098	WO3179-022	0.05	0.05
H101-1098	WO3179-023	0.05	0.05
H201-1098	WO3179-024	0.05	0.05
H003-1098	WO3179-025	0.05	0.05
H005-1098	WO3179-026	0.05	0.05
H006A-1098	WO3179-027	0.05	0.05
H007-1098	WO3179-028	0.05	0.05
H008-1098	WO3179-029	0.05	0.05
H009	WO3179-030	0.05	0.05
H009	WO3179-030A	0.05	0.05
H009P	WO3179-030P	0.05	0.05
H009S	WO3179-030S	0.05	0.05
H010-1098	WO3179-031	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID: OJ24ICW2**

Matrix: WATER **SDG Name: WO3179**

Method: P **Prep Date: 10/24/98**

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWOJ24ICW2	LCSWOJ24ICW2	0.05	0.05
PBWOJ24ICW2	PBWOJ24ICW2	0.05	0.05
S001-1098-12/13	WO3179-035V	0.05	0.05
S001-1098-12/13	WO3179-035VA	0.05	0.05
S001-1098-12/13D	WO3179-035VD	0.05	0.05
S001-1098-12/13S	WO3179-035VS	0.05	0.05
S002-1098-8/9.6	WO3179-036V	0.05	0.05
S003-1098-12.5/14	WO3179-037V	0.05	0.05
S103-1098-12.5/14	WO3179-038V	0.05	0.05

Katahdin
ANALYTICAL SERVICES

November 2, 1998

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE: Katahdin Lab Number: WO-3179
Project ID: Charleston, RI Site
Project Manager: Ms. Lil Pepin
Sample Receipt Date: October 16, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Maria Crouch
Authorized Signature

11/02/98
Date

340 Country 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

November 17, 1998

Mr. Vincent DelloRusso
Roy F. Weston
One Wall Street
Manchester, NH 03101-1501

RE: Katahdin Lab Number: WO3179
Project ID: Charleston, RI Site
Project Manager: Ms. Lil Pepin
Sample Receipt Date: October 16, 1998

Dear Mr. DelloRusso:

Please find enclosed the following information:

* Reissued Report of Analytical Results (ROAs) for volatile compounds for the work order mentioned above. The ROAs have been corrected to report a full list of volatile compounds rather than the abbreviated list used in the original report. The resubmitted pages have been paginated to be inserted into the original report.

Due to an error in Sample Receipt and Project Management the samples were logged in incorrectly. We apologize for any incovenience our error may have caused you.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Marsa Crouch
Authorized Signature

11/17/98
Date

340 Country 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

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
B	'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-1	Sample dilution required due to matrix interference, sample viscosity or other matrix-related problem; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

0000002

KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
B	'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-1	Sample dilution required due to matrix interference, sample viscosity or other matrix-related problem; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S001-1098-12/13

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 97.8 **Lab Sample ID:** WO3179-001

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	7.5	[illegible]		P	1

J4 Estimate
since lab dup results
did not meet 90RPD criteria

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-1
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S001-1098-12/13	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	98.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-1
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S001-1098-12/13	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	<2.5	mg/kgdrywt	1.0	2.5	SW8015M	10/22/98	JY	
4-Bromofluorobenzene	86.	%	1.0		SW8015M	10/22/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	110.	%	1.0		SW8015M	10/22/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)/tl

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-1
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 98
Method: EPA 8260
Date Analyzed: 10/20/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-12/13	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<84	ug/Kgdrywt	42	84	2.0
BROMOMETHANE	<84	ug/Kgdrywt	42	84	2.0
VINYL CHLORIDE	<84	ug/Kgdrywt	42	84	2.0
CHLOROETHANE	<84	ug/Kgdrywt	42	84	2.0
METHYLENE CHLORIDE	340	ug/Kgdrywt	42	42	1.0
ACETONE	<210	ug/Kgdrywt	42	210	5
CARBON DISULFIDE	<42	ug/Kgdrywt	42	42	1.0
1,1-DICHLOROETHENE	<42	ug/Kgdrywt	42	42	1.0
1,1-DICHLOROETHANE	<42	ug/Kgdrywt	42	42	1.0
TOTAL 1,2-DICHLOROETHENE	<42	ug/Kgdrywt	42	42	1.0
CHLOROFORM	<42	ug/Kgdrywt	42	42	1.0
1,2-DICHLOROETHANE	<42	ug/Kgdrywt	42	42	1.0
2-BUTANONE	<210	ug/Kgdrywt	42	210	5
1,1,1-TRICHLOROETHANE	<42	ug/Kgdrywt	42	42	1.0
CARBON TETRACHLORIDE	<42	ug/Kgdrywt	42	42	1.0
BROMODICHLOROMETHANE	<42	ug/Kgdrywt	42	42	1.0
1,2-DICHLOROPROPANE	<42	ug/Kgdrywt	42	42	1.0
CIS-1,3-DICHLOROPROPENE	<42	ug/Kgdrywt	42	42	1.0
TRICHLOROETHENE	<42	ug/Kgdrywt	42	42	1.0
DIBROMOCHLOROMETHANE	<42	ug/Kgdrywt	42	42	1.0
1,1,2-TRICHLOROETHANE	<42	ug/Kgdrywt	42	42	1.0
BENZENE	<210	ug/Kgdrywt	42	210	5.0
TRANS-1,3-DICHLOROPROPENE	<42	ug/Kgdrywt	42	42	1.0
BROMOFORM	<42	ug/Kgdrywt	42	42	1.0
4-METHYL-2-PENTANONE	<130	ug/Kgdrywt	42	130	3
2-HEXANONE	<170	ug/Kgdrywt	42	170	4
TETRACHLOROETHENE	<42	ug/Kgdrywt	42	42	1.0
1,1,2,2-TETRACHLOROETHANE	<42	ug/Kgdrywt	42	42	1.0
TOLUENE	<210	ug/Kgdrywt	42	210	5.0
CHLOROBENZENE	<42	ug/Kgdrywt	42	42	1.0
ETHYLBENZENE	<210	ug/Kgdrywt	42	210	5.0
STYRENE	<42	ug/Kgdrywt	42	42	1.0
TOTAL XYLENES	<210	ug/Kgdrywt	42	210	5.0

Report Notes:

0000006

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: *Mr. Vincent DelloRusso*
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-1
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 98
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-12/13	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	114	%	42		
TOLUENE-D8	114	%	42		
P-BROMOFLUOROBENZENE	103	%	42		
1,2-DICHLOROETHANE-D4	110	%	42		

Report Notes:

0000007

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-1
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 98
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-12/13	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<210	ug/Kgdrywt	42	210	5
CHLOROMETHANE	<210	ug/Kgdrywt	42	210	5
VINYL CHLORIDE	<420	ug/Kgdrywt	42	420	10
BROMOMETHANE	<210	ug/Kgdrywt	42	210	5
CHLOROETHANE	<210	ug/Kgdrywt	42	210	5
TRICHLOROFLUOROMETHANE	<210	ug/Kgdrywt	42	210	5
1,1-DICHLOROETHENE	<210	ug/Kgdrywt	42	210	5
METHYLENE CHLORIDE	340 U1	ug/Kgdrywt	42	210	5
1,2-DICHLOROETHENE (TRANS)	<210	ug/Kgdrywt	42	210	5
1,1-DICHLOROETHANE	<210	ug/Kgdrywt	42	210	5
1,2-DICHLOROETHENE (CIS)	<210	ug/Kgdrywt	42	210	5
2,2-DICHLOROPROPANE	<210	ug/Kgdrywt	42	210	5
CHLOROFORM	<210	ug/Kgdrywt	42	210	5
BROMOCHLOROMETHANE	<210	ug/Kgdrywt	42	210	5
1,1,1-TRICHLOROETHANE	<210	ug/Kgdrywt	42	210	5
1,2-DICHLOROETHANE	<210	ug/Kgdrywt	42	210	5
1,1-DICHLOROPROPENE	<210	ug/Kgdrywt	42	210	5
CARBON TETRACHLORIDE	<210	ug/Kgdrywt	42	210	5
BENZENE	<210	ug/Kgdrywt	42	210	5
1,2-DICHLOROPROPANE	<210	ug/Kgdrywt	42	210	5
TRICHLOROETHENE	<210	ug/Kgdrywt	42	210	5
DIBROMOMETHANE	<210	ug/Kgdrywt	42	210	5
BROMODICHLOROMETHANE	<210	ug/Kgdrywt	42	210	5
CIS-1,3-DICHLOROPROPENE	<210	ug/Kgdrywt	42	210	5
TOLUENE	<210	ug/Kgdrywt	42	210	5
TRANS-1,3-DICHLOROPROPENE	<210	ug/Kgdrywt	42	210	5
1,1,2-TRICHLOROETHANE	<210	ug/Kgdrywt	42	210	5
1,3-DICHLOROPROPANE	<210	ug/Kgdrywt	42	210	5
DIBROMOCHLOROMETHANE	<210	ug/Kgdrywt	42	210	5
TETRACHLOROETHENE	<210	ug/Kgdrywt	42	210	5
1,2-DIBROMOETHANE	<210	ug/Kgdrywt	42	210	5
CHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
1,1,1,2-TETRACHLOROETHANE	<210	ug/Kgdrywt	42	210	5

Report Notes:

0000006

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-1
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 98
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-12/13	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<210	ug/Kgdrywt	42	210	5
BROMOFORM	<210	ug/Kgdrywt	42	210	5
STYRENE	<210	ug/Kgdrywt	42	210	5
1,1,2,2-TETRACHLOROETHANE	<210	ug/Kgdrywt	42	210	5
1,2,3-TRICHLOROPROPANE	<210	ug/Kgdrywt	42	210	5
ISOPROPYLBENZENE	<210	ug/Kgdrywt	42	210	5
BROMOBENZENE	<210	ug/Kgdrywt	42	210	5
2-CHLOROTOLUENE	<210	ug/Kgdrywt	42	210	5
N-PROPYLBENZENE	<210	ug/Kgdrywt	42	210	5
4-CHLOROTOLUENE	<210	ug/Kgdrywt	42	210	5
1,3,5-TRIMETHYLBENZENE	<210	ug/Kgdrywt	42	210	5
TERT-BUTYLBENZENE	<210	ug/Kgdrywt	42	210	5
1,2,4-TRICHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
SEC-BUTYLBENZENE	<210	ug/Kgdrywt	42	210	5
1,3-DICHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
P-ISOPROPYLTOLUENE	<210	ug/Kgdrywt	42	210	5
1,4-DICHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
1,2-DICHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
N-BUTYLBENZENE	<210	ug/Kgdrywt	42	210	5
1,2-DIBROMO-3-CHLOROPROPAN	<210	ug/Kgdrywt	42	210	5
1,2,4-TRIMETHYLBENZENE	<210	ug/Kgdrywt	42	210	5
NAPHTHALENE	<210	ug/Kgdrywt	42	210	5
HEXACHLOROBUTADIENE	<210	ug/Kgdrywt	42	210	5
1,2,3-TRICHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
MTBE	<210	ug/Kgdrywt	42	210	5
ACETONE	<420	ug/Kgdrywt	42	420	10
2-BUTANONE	<420	ug/Kgdrywt	42	420	10
4-METHYL-2-PENTANONE	<420	ug/Kgdrywt	42	420	10
2-HEXANONE	<420	ug/Kgdrywt	42	420	10
M+P-XYLENE	<210	ug/Kgdrywt	42	210	5
O-XYLENE	<210	ug/Kgdrywt	42	210	5
1,3,5-TRICHLOROBENZENE	<210	ug/Kgdrywt	42	210	5
VINYL ACETATE	<5.0	ug/Kgdrywt	42	5.0	5.0

Report Notes:

0000007

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-1
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 98
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-12/13	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<210	ug/Kgdrywt	42	210	5
DIETHYL ETHER	<210	ug/Kgdrywt	42	210	5
TETRAHYDROFURAN	<420	ug/Kgdrywt	42	420	10
DIBROMOFLUOROMETHANE	114	%	42		
1,2-DICHLOROETHANE-D4	110	%	42		
TOLUENE-D8	114	%	42		
P-BROMOFLUOROBENZENE	103	%	42		

Report Notes:

0000007A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S002-1098-8/9.6

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 89.2 **Lab Sample ID:** WO3179-002

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	14.4			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-2
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S002-1098-8/9.6	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	89.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-2
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S002-1098-8/9.6	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	<2.8	mg/kgdrywt	1.1	2.5	SW8015M	10/23/98	JY	
4-Bromofluorobenzene	92.	%	1.1		SW8015M	10/23/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	98.	%	1.1		SW8015M	10/23/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-2
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-8/9.6	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<150	ug/Kgdrywt	74	150	2.0
BROMOMETHANE	<150	ug/Kgdrywt	74	150	2.0
VINYL CHLORIDE	<150	ug/Kgdrywt	74	150	2.0
CHLOROETHANE	<150	ug/Kgdrywt	74	150	2.0
METHYLENE CHLORIDE	520 U'	ug/Kgdrywt	74	74	1.0
ACETONE	<370	ug/Kgdrywt	74	370	5
CARBON DISULFIDE	<74	ug/Kgdrywt	74	74	1.0
1,1-DICHLOROETHENE	<74	ug/Kgdrywt	74	74	1.0
1,1-DICHLOROETHANE	<74	ug/Kgdrywt	74	74	1.0
TOTAL 1,2-DICHLOROETHENE	<74	ug/Kgdrywt	74	74	1.0
CHLOROFORM	<74	ug/Kgdrywt	74	74	1.0
1,2-DICHLOROETHANE	<74	ug/Kgdrywt	74	74	1.0
2-BUTANONE	<370	ug/Kgdrywt	74	370	5
1,1,1-TRICHLOROETHANE	<74	ug/Kgdrywt	74	74	1.0
CARBON TETRACHLORIDE	<74	ug/Kgdrywt	74	74	1.0
BROMODICHLOROMETHANE	<74	ug/Kgdrywt	74	74	1.0
1,2-DICHLOROPROPANE	<74	ug/Kgdrywt	74	74	1.0
CIS-1,3-DICHLOROPROPENE	<74	ug/Kgdrywt	74	74	1.0
TRICHLOROETHENE	<74	ug/Kgdrywt	74	74	1.0
DIBROMOCHLOROMETHANE	<74	ug/Kgdrywt	74	74	1.0
1,1,2-TRICHLOROETHANE	<74	ug/Kgdrywt	74	74	1.0
BENZENE	<370	ug/Kgdrywt	74	370	5.0
TRANS-1,3-DICHLOROPROPENE	<74	ug/Kgdrywt	74	74	1.0
BROMOFORM	<74	ug/Kgdrywt	74	74	1.0
4-METHYL-2-PENTANONE	<220	ug/Kgdrywt	74	220	3
2-HEXANONE	<300	ug/Kgdrywt	74	300	4
TETRACHLOROETHENE	<74	ug/Kgdrywt	74	74	1.0
1,1,2,2-TETRACHLOROETHANE	<74	ug/Kgdrywt	74	74	1.0
TOLUENE	<370	ug/Kgdrywt	74	370	5.0
CHLOROBENZENE	<74	ug/Kgdrywt	74	74	1.0
ETHYLBENZENE	<370	ug/Kgdrywt	74	370	5.0
STYRENE	<74	ug/Kgdrywt	74	74	1.0
TOTAL XYLENES	<370	ug/Kgdrywt	74	370	5.0

Report Notes:

0000011

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-2
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-8/9.6	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	111	%	74		
TOLUENE-D8	114	%	74		
P-BROMOFLUOROBENZENE	102	%	74		
1,2-DICHLOROETHANE-D4	110	%	74		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-2
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-8/9.6	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	*Result*	*Units*	*DF*	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<370	ug/Kgdrywt	74	370	5
CHLOROMETHANE	<370	ug/Kgdrywt	74	370	5
VINYL CHLORIDE	<740	ug/Kgdrywt	74	740	10
BROMOMETHANE	<370	ug/Kgdrywt	74	370	5
CHLOROETHANE	<370	ug/Kgdrywt	74	370	5
TRICHLOROFLUOROMETHANE	<370	ug/Kgdrywt	74	370	5
1,1-DICHLOROETHENE	<370	ug/Kgdrywt	74	370	5
METHYLENE CHLORIDE	520	ug/Kgdrywt	74	370	5
1,2-DICHLOROETHENE (TRANS)	<370	ug/Kgdrywt	74	370	5
1,1-DICHLOROETHANE	<370	ug/Kgdrywt	74	370	5
1,2-DICHLOROETHENE (CIS)	<370	ug/Kgdrywt	74	370	5
2,2-DICHLOROPROPANE	<370	ug/Kgdrywt	74	370	5
CHLOROFORM	<370	ug/Kgdrywt	74	370	5
BROMOCHLOROMETHANE	<370	ug/Kgdrywt	74	370	5
1,1,1-TRICHLOROETHANE	<370	ug/Kgdrywt	74	370	5
1,2-DICHLOROETHANE	<370	ug/Kgdrywt	74	370	5
1,1-DICHLOROPROPENE	<370	ug/Kgdrywt	74	370	5
CARBON TETRACHLORIDE	<370	ug/Kgdrywt	74	370	5
BENZENE	<370	ug/Kgdrywt	74	370	5
1,2-DICHLOROPROPANE	<370	ug/Kgdrywt	74	370	5
TRICHLOROETHENE	<370	ug/Kgdrywt	74	370	5
DIBROMOMETHANE	<370	ug/Kgdrywt	74	370	5
BROMODICHLOROMETHANE	<370	ug/Kgdrywt	74	370	5
CIS-1,3-DICHLOROPROPENE	<370	ug/Kgdrywt	74	370	5
TOLUENE	<370	ug/Kgdrywt	74	370	5
TRANS-1,3-DICHLOROPROPENE	<370	ug/Kgdrywt	74	370	5
1,1,2-TRICHLOROETHANE	<370	ug/Kgdrywt	74	370	5
1,3-DICHLOROPROPANE	<370	ug/Kgdrywt	74	370	5
DIBROMOCHLOROMETHANE	<370	ug/Kgdrywt	74	370	5
TETRACHLOROETHENE	<370	ug/Kgdrywt	74	370	5
1,2-DIBROMOETHANE	<370	ug/Kgdrywt	74	370	5
CHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
1,1,1,2-TETRACHLOROETHANE	<370	ug/Kgdrywt	74	370	5

Report Notes:

0000011

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-2
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-8/9.6	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<370	ug/Kgdrywt	74	370	5
BROMOFORM	<370	ug/Kgdrywt	74	370	5
STYRENE	<370	ug/Kgdrywt	74	370	5
1,1,2,2-TETRACHLOROETHANE	<370	ug/Kgdrywt	74	370	5
1,2,3-TRICHLOROPROPANE	<370	ug/Kgdrywt	74	370	5
ISOPROPYLBENZENE	<370	ug/Kgdrywt	74	370	5
BROMOBENZENE	<370	ug/Kgdrywt	74	370	5
2-CHLOROTOLUENE	<370	ug/Kgdrywt	74	370	5
N-PROPYLBENZENE	<370	ug/Kgdrywt	74	370	5
4-CHLOROTOLUENE	<370	ug/Kgdrywt	74	370	5
1,3,5-TRIMETHYLBENZENE	<370	ug/Kgdrywt	74	370	5
TERT-BUTYLBENZENE	<370	ug/Kgdrywt	74	370	5
1,2,4-TRICHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
SEC-BUTYLBENZENE	<370	ug/Kgdrywt	74	370	5
1,3-DICHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
P-ISOPROPYLTOLUENE	<370	ug/Kgdrywt	74	370	5
1,4-DICHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
1,2-DICHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
N-BUTYLBENZENE	<370	ug/Kgdrywt	74	370	5
1,2-DIBROMO-3-CHLOROPROPAN	<370	ug/Kgdrywt	74	370	5
1,2,4-TRIMETHYLBENZENE	<370	ug/Kgdrywt	74	370	5
NAPHTHALENE	<370	ug/Kgdrywt	74	370	5
HEXACHLOROBUTADIENE	<370	ug/Kgdrywt	74	370	5
1,2,3-TRICHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
MTBE	<370	ug/Kgdrywt	74	370	5
ACETONE	<740	ug/Kgdrywt	74	740	10
2-BUTANONE	<740	ug/Kgdrywt	74	740	10
4-METHYL-2-PENTANONE	<740	ug/Kgdrywt	74	740	10
2-HEXANONE	<740	ug/Kgdrywt	74	740	10
M+P-XYLENE	<370	ug/Kgdrywt	74	370	5
O-XYLENE	<370	ug/Kgdrywt	74	370	5
1,3,5-TRICHLOROBENZENE	<370	ug/Kgdrywt	74	370	5
VINYL ACETATE	<370	ug/Kgdrywt	74	370	5.0

Report Notes:

0000012

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-2
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-8/9.6	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<370	ug/Kgdrywt	74	370	5
DIETHYL ETHER	<370	ug/Kgdrywt	74	370	5
TETRAHYDROFURAN	<740	ug/Kgdrywt	74	740	10
DIBROMOFLUOROMETHANE	111	%	74		
1,2-DICHLOROETHANE-D4	110	%	74		
TOLUENE-D8	114	%	74		
P-BROMOFLUOROBENZENE	102	%	74		

Report Notes:

00000124

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-3
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S101-1098-14.3/15.2	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	91.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-3
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 90
Method: EPA 8260
Date Analyzed: 10/24/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S101-1098-14.3/15.2	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<280 UJ	ug/Kgdrywt	140	280	2.0
BROMOMETHANE	<280	ug/Kgdrywt	140	280	2.0
VINYL CHLORIDE	<280	ug/Kgdrywt	140	280	2.0
CHLOROETHANE	<280	ug/Kgdrywt	140	280	2.0
METHYLENE CHLORIDE	1100 J	ug/Kgdrywt	140	140	1.0
ACETONE	<700 UJ	ug/Kgdrywt	140	700	5
CARBON DISULFIDE	<140	ug/Kgdrywt	140	140	1.0
1,1-DICHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
1,1-DICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
TOTAL 1,2-DICHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
CHLOROFORM	<140	ug/Kgdrywt	140	140	1.0
1,2-DICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
2-BUTANONE	<700	ug/Kgdrywt	140	700	5
1,1,1-TRICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
CARBON TETRACHLORIDE	<140	ug/Kgdrywt	140	140	1.0
BROMODICHLOROMETHANE	<140	ug/Kgdrywt	140	140	1.0
1,2-DICHLOROPROPANE	<140	ug/Kgdrywt	140	140	1.0
CIS-1,3-DICHLOROPROPENE	<140	ug/Kgdrywt	140	140	1.0
TRICHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
DIBROMOCHLOROMETHANE	<140	ug/Kgdrywt	140	140	1.0
1,1,2-TRICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
BENZENE	<700	ug/Kgdrywt	140	700	5.0
TRANS-1,3-DICHLOROPROPENE	<140	ug/Kgdrywt	140	140	1.0
BROMOFORM	<140	ug/Kgdrywt	140	140	1.0
4-METHYL-2-PENTANONE	<420	ug/Kgdrywt	140	420	3
2-HEXANONE	<560	ug/Kgdrywt	140	560	4
TETRACHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
1,1,2,2-TETRACHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
TOLUENE	<700	ug/Kgdrywt	140	700	5.0
CHLOROBENZENE	<140	ug/Kgdrywt	140	140	1.0
ETHYLBENZENE	J520	ug/Kgdrywt	140	700	5.0
STYRENE	<140 UJ	ug/Kgdrywt	140	140	1.0
TOTAL XYLENES	1700 J	ug/Kgdrywt	140	700	5.0

Report Notes: J

0000014

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-3
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 90
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S101-1098-14.3/15.2	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	96	%	140		
TOLUENE-D8	109	%	140		
P-BROMOFLUOROBENZENE	100	%	140		
1,2-DICHLOROETHANE-D4	103	%	140		

Report Notes: J

0000015

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-3
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 90
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S101-1098-14.3/15.2	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<690 UJ	ug/Kgdrywt	140	690	5
CHLOROMETHANE	<690	ug/Kgdrywt	140	690	5
VINYL CHLORIDE	<1400	ug/Kgdrywt	140	1400	10
BROMOMETHANE	J440	ug/Kgdrywt	140	690	5
CHLOROETHANE	<690 UJ	ug/Kgdrywt	140	690	5
TRICHLOROFLUOROMETHANE	<690	ug/Kgdrywt	140	690	5
1,1-DICHLOROETHENE	<690	ug/Kgdrywt	140	690	5
METHYLENE CHLORIDE	B1100 UJ	ug/Kgdrywt	140	690	5
1,2-DICHLOROETHENE (TRANS)	<690 UJ	ug/Kgdrywt	140	690	5
1,1-DICHLOROETHANE	<690	ug/Kgdrywt	140	690	5
1,2-DICHLOROETHENE (CIS)	<690	ug/Kgdrywt	140	690	5
2,2-DICHLOROPROPANE	<690	ug/Kgdrywt	140	690	5
CHLOROFORM	<690	ug/Kgdrywt	140	690	5
BROMOCHLOROMETHANE	<690	ug/Kgdrywt	140	690	5
1,1,1-TRICHLOROETHANE	<690	ug/Kgdrywt	140	690	5
1,2-DICHLOROETHANE	<690	ug/Kgdrywt	140	690	5
1,1-DICHLOROPROPENE	<690	ug/Kgdrywt	140	690	5
CARBON TETRACHLORIDE	<690	ug/Kgdrywt	140	690	5
BENZENE	<690	ug/Kgdrywt	140	690	5
1,2-DICHLOROPROPANE	<690	ug/Kgdrywt	140	690	5
TRICHLOROETHENE	<690	ug/Kgdrywt	140	690	5
DIBROMOMETHANE	<690	ug/Kgdrywt	140	690	5
BROMODICHLOROMETHANE	<690	ug/Kgdrywt	140	690	5
CIS-1,3-DICHLOROPROPENE	<690	ug/Kgdrywt	140	690	5
TOLUENE	<690	ug/Kgdrywt	140	690	5
TRANS-1,3-DICHLOROPROPENE	<690	ug/Kgdrywt	140	690	5
1,1,2-TRICHLOROETHANE	<690	ug/Kgdrywt	140	690	5
1,3-DICHLOROPROPANE	<690	ug/Kgdrywt	140	690	5
DIBROMOCHLOROMETHANE	<690	ug/Kgdrywt	140	690	5
TETRACHLOROETHENE	<690	ug/Kgdrywt	140	690	5
1,2-DIBROMOETHANE	<690	ug/Kgdrywt	140	690	5
CHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
1,1,1,2-TETRACHLOROETHANE	<690	ug/Kgdrywt	140	690	5

Report Notes: B, J, O-1, O-2

0000014

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-3
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 90
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S101-1098-14.3/15.2	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	J520	ug/Kgdrywt	140	690	5
BROMOFORM	<690 UJ'	ug/Kgdrywt	140	690	5
STYRENE	<690	ug/Kgdrywt	140	690	5
1,1,2,2-TETRACHLOROETHANE	<690	ug/Kgdrywt	140	690	5
1,2,3-TRICHLOROPROPANE	<690	ug/Kgdrywt	140	690	5
ISOPROPYLBENZENE	J 6900	ug/Kgdrywt	140	690	5
BROMOBENZENE	<690	ug/Kgdrywt	140	690	5
2-CHLOROTOLUENE	<690	ug/Kgdrywt	140	690	5
N-PROPYLBENZENE	1100 J'	ug/Kgdrywt	140	690	5
4-CHLOROTOLUENE	<690 UJ'	ug/Kgdrywt	140	690	5
1,3,5-TRIMETHYLBENZENE	16000 J'	ug/Kgdrywt	140	690	5
TERT-BUTYLBENZENE	<690 UJ'	ug/Kgdrywt	140	690	5
1,2,4-TRICHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
SEC-BUTYLBENZENE	<690	ug/Kgdrywt	140	690	5
1,3-DICHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
P-ISOPROPYLTOLUENE	<690	ug/Kgdrywt	140	690	5
1,4-DICHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
1,2-DICHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
N-BUTYLBENZENE	<690	ug/Kgdrywt	140	690	5
1,2-DIBROMO-3-CHLOROPROPAN	<690	ug/Kgdrywt	140	690	5
1,2,4-TRIMETHYLBENZENE	8600 J'	ug/Kgdrywt	140	690	5
NAPHTHALENE	<690 UJ'	ug/Kgdrywt	140	690	5
HEXACHLOROBUTADIENE	<690	ug/Kgdrywt	140	690	5
1,2,3-TRICHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
MTBE	<690	ug/Kgdrywt	140	690	5
ACETONE	<1400	ug/Kgdrywt	140	1400	10
2-BUTANONE	<1400	ug/Kgdrywt	140	1400	10
4-METHYL-2-PENTANONE	<1400	ug/Kgdrywt	140	1400	10
2-HEXANONE	<1400	ug/Kgdrywt	140	1400	10
M+P-XYLENE	1700 J'	ug/Kgdrywt	140	690	5
O-XYLENE	<690 UJ'	ug/Kgdrywt	140	690	5
1,3,5 TRICHLOROBENZENE	<690	ug/Kgdrywt	140	690	5
VINYL ACETATE	<690	ug/Kgdrywt	140	690	5.0

Report Notes: B, J, O-1, O-2

0000015

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-3
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 90
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S101-1098-14.3/15.2	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<690 UT'	ug/Kgdrywt	140	690	5
DIETHYL ETHER	<690	ug/Kgdrywt	140	690	5
TETRAHYDROFURAN	<1400	ug/Kgdrywt	140	1400	10
DIBROMOFLUOROMETHANE	96	%	140		
1,2-DICHLOROETHANE-D4	103	%	140		
TOLUENE-D8	109	%	140		
P-BROMOFLUOROBENZENE	100	%	140		

Report Notes: B, J, O-1, O-2

0000016

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S001-1098-14.3/15.2

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 91.8 **Lab Sample ID:** WO3179-004

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	10.2			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-4
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S001-1098-14.3/15.2	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	92.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-4
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S001-1098-14.3/15.2	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1,2,3
Gasoline Range Organics	290. J2	mg/kgdrywt	4.4	2.5	SW8015M	10/24/98	JY	
4-Bromofluorobenzene	MI156.	%	4.4		SW8015M	10/24/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	MI175	%	4.4		SW8015M	10/24/98	JY	

* 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 10/22/98 by JEY
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(3) "MI" denotes surrogate recovery out of criteria due to matrix interference.

11/02/98

LJO/jcbjdy/lp(dw)/pdl

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<120 UJ	ug/Kgdrywt	59	120	2.0
BROMOMETHANE	<120	ug/Kgdrywt	59	120	2.0
VINYL CHLORIDE	<120	ug/Kgdrywt	59	120	2.0
CHLOROETHANE	<120	ug/Kgdrywt	59	120	2.0
METHYLENE CHLORIDE	370 UJ	ug/Kgdrywt	59	59	1.0
ACETONE	<300	ug/Kgdrywt	59	300	5
CARBON DISULFIDE	<59	ug/Kgdrywt	59	59	1.0
1,1-DICHLOROETHENE	<59	ug/Kgdrywt	59	59	1.0
1,1-DICHLOROETHANE	<59	ug/Kgdrywt	59	59	1.0
TOTAL 1,2-DICHLOROETHENE	<59	ug/Kgdrywt	59	59	1.0
CHLOROFORM	<59	ug/Kgdrywt	59	59	1.0
1,2-DICHLOROETHANE	<59	ug/Kgdrywt	59	59	1.0
2-BUTANONE	<300	ug/Kgdrywt	59	300	5
1,1,1-TRICHLOROETHANE	<59	ug/Kgdrywt	59	59	1.0
CARBON TETRACHLORIDE	<59	ug/Kgdrywt	59	59	1.0
BROMODICHLOROMETHANE	<59	ug/Kgdrywt	59	59	1.0
1,2-DICHLOROPROPANE	<59	ug/Kgdrywt	59	59	1.0
CIS-1,3-DICHLOROPROPENE	<59	ug/Kgdrywt	59	59	1.0
TRICHLOROETHENE	<59	ug/Kgdrywt	59	59	1.0
DIBROMOCHLOROMETHANE	<59	ug/Kgdrywt	59	59	1.0
1,1,2-TRICHLOROETHANE	<59	ug/Kgdrywt	59	59	1.0
BENZENE	<300	ug/Kgdrywt	59	300	5.0
TRANS-1,3-DICHLOROPROPENE	<59	ug/Kgdrywt	59	59	1.0
BROMOFORM	<59	ug/Kgdrywt	59	59	1.0
4-METHYL-2-PENTANONE	<180	ug/Kgdrywt	59	180	3
2-HEXANONE	<240	ug/Kgdrywt	59	240	4
TETRACHLOROETHENE	<59	ug/Kgdrywt	59	59	1.0
1,1,2,2-TETRACHLOROETHANE	<59	ug/Kgdrywt	59	59	1.0
TOLUENE	<300	ug/Kgdrywt	59	300	5.0
CHLOROBENZENE	<59	ug/Kgdrywt	59	59	1.0
ETHYLBENZENE	<300	ug/Kgdrywt	59	300	5.0
STYRENE	<59	ug/Kgdrywt	59	59	1.0
TOTAL XYLENES	J150	ug/Kgdrywt	59	300	5.0

Report Notes: J

0000019

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	107	%	59		
TOLUENE-D8	115	%	59		
P-BROMOFLUOROBENZENE	111	%	59		
1,2-DICHLOROETHANE-D4	110	%	59		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<300 UJ	ug/Kgdrywt	59	300	5
CHLOROMETHANE	<300	ug/Kgdrywt	59	300	5
VINYL CHLORIDE	<590	ug/Kgdrywt	59	590	10
BROMOMETHANE	<300	ug/Kgdrywt	59	300	5
CHLOROETHANE	<300	ug/Kgdrywt	59	300	5
TRICHLOROFLUOROMETHANE	<300	ug/Kgdrywt	59	300	5
1,1-DICHLOROETHENE	<300	ug/Kgdrywt	59	300	5
METHYLENE CHLORIDE	370 UJ	ug/Kgdrywt	59	300	5
1,2-DICHLOROETHENE (TRANS)	<300 UJ	ug/Kgdrywt	59	300	5
1,1-DICHLOROETHANE	<300	ug/Kgdrywt	59	300	5
1,2-DICHLOROETHENE (CIS)	<300	ug/Kgdrywt	59	300	5
2,2-DICHLOROPROPANE	<300	ug/Kgdrywt	59	300	5
CHLOROFORM	<300	ug/Kgdrywt	59	300	5
BROMOCHLOROMETHANE	<300	ug/Kgdrywt	59	300	5
1,1,1-TRICHLOROETHANE	<300	ug/Kgdrywt	59	300	5
1,2-DICHLOROETHANE	<300	ug/Kgdrywt	59	300	5
1,1-DICHLOROPROPENE	<300	ug/Kgdrywt	59	300	5
CARBON TETRACHLORIDE	<300	ug/Kgdrywt	59	300	5
BENZENE	<300	ug/Kgdrywt	59	300	5
1,2-DICHLOROPROPANE	<300	ug/Kgdrywt	59	300	5
TRICHLOROETHENE	<300	ug/Kgdrywt	59	300	5
DIBROMOMETHANE	<300	ug/Kgdrywt	59	300	5
BROMODICHLOROMETHANE	<300	ug/Kgdrywt	59	300	5
CIS-1,3-DICHLOROPROPENE	<300	ug/Kgdrywt	59	300	5
TOLUENE	<300	ug/Kgdrywt	59	300	5
TRANS-1,3-DICHLOROPROPENE	<300	ug/Kgdrywt	59	300	5
1,1,2-TRICHLOROETHANE	<300	ug/Kgdrywt	59	300	5
1,3-DICHLOROPROPANE	<300	ug/Kgdrywt	59	300	5
DIBROMOCHLOROMETHANE	<300	ug/Kgdrywt	59	300	5
TETRACHLOROETHENE	<300	ug/Kgdrywt	59	300	5
1,2-DIBROMOETHANE	<300	ug/Kgdrywt	59	300	5
CHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
1,1,1,2-TETRACHLOROETHANE	<300	ug/Kgdrywt	59	300	5

Report Notes: J

0000019

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<300 UJ	ug/Kgdrywt	59	300	5
BROMOFORM	<300	ug/Kgdrywt	59	300	5
STYRENE	<300	ug/Kgdrywt	59	300	5
1,1,2,2-TETRACHLOROETHANE	<300	ug/Kgdrywt	59	300	5
1,2,3-TRICHLOROPROPANE	<300	ug/Kgdrywt	59	300	5
ISOPROPYLBENZENE	J280	ug/Kgdrywt	59	300	5
BROMOBENZENE	<300 UJ	ug/Kgdrywt	59	300	5
2-CHLOROTOLUENE	<300	ug/Kgdrywt	59	300	5
N-PROPYLBENZENE	<300	ug/Kgdrywt	59	300	5
4-CHLOROTOLUENE	<300	ug/Kgdrywt	59	300	5
1,3,5-TRIMETHYLBENZENE	J190	ug/Kgdrywt	59	300	5
TERT-BUTYLBENZENE	<300 UJ	ug/Kgdrywt	59	300	5
1,2,4-TRICHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
SEC-BUTYLBENZENE	<300	ug/Kgdrywt	59	300	5
1,3-DICHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
P-ISOPROPYLTOLUENE	<300	ug/Kgdrywt	59	300	5
1,4-DICHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
1,2-DICHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
N-BUTYLBENZENE	<300	ug/Kgdrywt	59	300	5
1,2-DIBROMO-3-CHLOROPROPAN	<300	ug/Kgdrywt	59	300	5
1,2,4-TRIMETHYLBENZENE	360 J	ug/Kgdrywt	59	300	5
NAPHTHALENE	<300 UJ	ug/Kgdrywt	59	300	5
HEXACHLOROBUTADIENE	<300	ug/Kgdrywt	59	300	5
1,2,3-TRICHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
MTBE	<300	ug/Kgdrywt	59	300	5
ACETONE	<590	ug/Kgdrywt	59	590	10
2-BUTANONE	<590	ug/Kgdrywt	59	590	10
4-METHYL-2-PENTANONE	<590	ug/Kgdrywt	59	590	10
2-HEXANONE	<590	ug/Kgdrywt	59	590	10
M+P-XYLENE	<300	ug/Kgdrywt	59	300	5
O-XYLENE	<300	ug/Kgdrywt	59	300	5
1,3,5-TRICHLOROBENZENE	<300	ug/Kgdrywt	59	300	5
VINYL ACETATE	<300	ug/Kgdrywt	59	300	5.0

Report Notes: J

0000020

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<300	ug/Kgdrywt	59	300	5
DIETHYL ETHER	<300	ug/Kgdrywt	59	300	5
TETRAHYDROFURAN	<590	ug/Kgdrywt	59	590	10
DIBROMOFLUOROMETHANE	107	%	59		
1,2-DICHLOROETHANE-D4	110	%	59		
TOLUENE-D8	115	%	59		
P-BROMOFLUOROBENZENE	111	%	59		

Report Notes: J

00000204

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelioRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<360	ug/Kg	1.1	360	330
BIS(2-CHLOROETHYL)ETHER	<360	ug/Kg	1.1	360	330
2-CHLOROPHENOL	<360	ug/Kg	1.1	360	330
1,3-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
1,4-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
1,2-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
2-METHYLPHENOL	<360	ug/Kg	1.1	360	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<360	ug/Kg	1.1	360	330
4-METHYLPHENOL	<360	ug/Kg	1.1	360	330
N-NITROSO-DI-N-PROPYLAMINE	<360	ug/Kg	1.1	360	330
HEXACHLOROETHANE	<360	ug/Kg	1.1	360	330
NITROBENZENE	<360	ug/Kg	1.1	360	330
ISOPHORONE	<360	ug/Kg	1.1	360	330
2-NITROPHENOL	<360	ug/Kg	1.1	360	330
2,4-DIMETHYLPHENOL	<360	ug/Kg UJ5	1.1	360	330
BIS(2-CHLOROETHOXY)METHANE	<360	ug/Kg	1.1	360	330
2,4-DICHLOROPHENOL	<360	ug/Kg	1.1	360	330
1,2,4-TRICHLOROBENZENE	<360	ug/Kg	1.1	360	330
NAPHTHALENE	<360	ug/Kg	1.1	360	330
4-CHLOROANILINE	<360	ug/Kg	1.1	360	330
HEXACHLOROBUTADIENE	<360	ug/Kg	1.1	360	330
4-CHLORO-3-METHYLPHENOL	<360	ug/Kg	1.1	360	330
2-METHYLNAPHTHALENE	<360	ug/Kg UJ5	1.1	360	330
HEXACHLOROCYCLOPENTADIEN	<360	ug/Kg UJ5	1.1	360	330
2,4,6-TRICHLOROPHENOL	<360	ug/Kg	1.1	360	330
2,4,5-TRICHLOROPHENOL	<900	ug/Kg	1.1	900	820
2-CHLORONAPHTHALENE	<360	ug/Kg	1.1	360	330
2-NITROANILINE	<900	ug/Kg	1.1	900	820
DIMETHYL PHTHALATE	<360	ug/Kg	1.1	360	330
ACENAPHTHYLENE	<360	ug/Kg	1.1	360	330
2,6-DINITROTOLUENE	<360	ug/Kg	1.1	360	330
3-NITROANILINE	<900	ug/Kg	1.1	900	820
ACENAPHTHENE	<360	ug/Kg	1.1	360	330

UJ5 - LCS recoveries below QC limits

Report Notes:

0000021

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<900	ug/Kg	1.1	900	820
4-NITROPHENOL	<900	ug/Kg	1.1	900	820
DIBENZOFURAN	<360	ug/Kg	1.1	360	330
2,4-DINITROTOLUENE	<360	ug/Kg	1.1	360	330
DIETHYLPHTHALATE	<360	ug/Kg	1.1	360	330
4-CHLOROPHENYL-PHENYLETHE	<360	ug/Kg	1.1	360	330
FLUORENE	<360	ug/Kg	1.1	360	330
4-NITROANILINE	<900	ug/Kg	1.1	900	820
4,6-DINITRO-2-METHYLPHENOL	<900	ug/Kg	1.1	900	820
N-NITROSODIPHENYLAMINE	<360	ug/Kg	1.1	360	330
4-BROMOPHENYL-PHENYLETHER	<360	ug/Kg	1.1	360	330
HEXACHLOROBENZENE	<360	ug/Kg	1.1	360	330
PENTACHLOROPHENOL	<900	ug/Kg	1.1	900	820
PHENANTHRENE	<360	ug/Kg	1.1	360	330
ANTHRACENE	<360	ug/Kg	1.1	360	330
CARBAZOLE	<360	ug/Kg	1.1	360	330
DI-N-BUTYLPHTHALATE	<360	ug/Kg	1.1	360	330
FLUORANTHENE	<360	ug/Kg	1.1	360	330
PYRENE	<360	ug/Kg	1.1	360	330
BUTYLBENZYLPHTHALATE	<360	ug/Kg	1.1	360	330
3,3'-DICHLOROBENZIDINE	<360	ug/Kg	1.1	360	330
BENZO[A]ANTHRACENE	<360	ug/Kg	1.1	360	330
CHRYSENE	<360	ug/Kg	1.1	360	330
BIS(2-ETHYLHEXYL)PHTHALATE	<360	ug/Kg	1.1	360	330
DI-N-OCTYLPHTHALATE	<360	ug/Kg	1.1	360	330
BENZO[B]FLUORANTHENE	<360	ug/Kg	1.1	360	330
BENZO[K]FLUORANTHENE	<360	ug/Kg	1.1	360	330
BENZO[A]PYRENE	<360	ug/Kg	1.1	360	330
INDENO[1,2,3-CD]PYRENE	<360	ug/Kg	1.1	360	330
DIBENZ[A,H]ANTHRACENE	<360	ug/Kg	1.1	360	330
BENZO[G,H,I]PERYLENE	<360	ug/Kg	1.1	360	330
2-FLUOROPHENOL	61	%	1.1		
PHENOL-D5	56	%	1.1		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-4
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S001-1098-14.3/15.2	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	51	%	1.1		
2-FLUOROBIPHENYL	64	%	1.1		
2,4,6-TRIBROMOPHENOL	58	%	1.1		
TERPHENYL-D14	52	%	1.1		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S002-1098-12.7/13.6

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 83.8 **Lab Sample ID:** WO3179-005

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	12.2			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-5
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S002-1098-12.7/13.6	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	84.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-5
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S002-1098-12.7/13.6	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1,2,3
Gasoline Range Organics	320.	mg/kgdrywt	4.8	2.5	SW8015M	10/24/98	JY	
4-Bromofluorobenzene	116.	%	4.8		SW8015M	10/24/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	MI145	%	4.8		SW8015M	10/24/98	JY	

* 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 10/22/98 by JEY
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(3) "MI" denotes surrogate recovery out of criteria due to matrix interference.

11/02/98

LJO/jcbjdy/lp(dw)/pdl

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<300	ug/Kgdrywt	150	300	2.0
BROMOMETHANE	<300	ug/Kgdrywt	150	300	2.0
VINYL CHLORIDE	<300	ug/Kgdrywt	150	300	2.0
CHLOROETHANE	<300	ug/Kgdrywt	150	300	2.0
METHYLENE CHLORIDE	1300 U'	ug/Kgdrywt	150	150	1.0
ACETONE	<750	ug/Kgdrywt	150	750	5
CARBON DISULFIDE	<150	ug/Kgdrywt	150	150	1.0
1,1-DICHLOROETHENE	<150	ug/Kgdrywt	150	150	1.0
1,1-DICHLOROETHANE	<150	ug/Kgdrywt	150	150	1.0
TOTAL 1,2-DICHLOROETHENE	<150	ug/Kgdrywt	150	150	1.0
CHLOROFORM	<150	ug/Kgdrywt	150	150	1.0
1,2-DICHLOROETHANE	<150	ug/Kgdrywt	150	150	1.0
2-BUTANONE	<750	ug/Kgdrywt	150	750	5
1,1,1-TRICHLOROETHANE	<150	ug/Kgdrywt	150	150	1.0
CARBON TETRACHLORIDE	<150	ug/Kgdrywt	150	150	1.0
BROMODICHLOROMETHANE	<150	ug/Kgdrywt	150	150	1.0
1,2-DICHLOROPROPANE	<150	ug/Kgdrywt	150	150	1.0
CIS-1,3-DICHLOROPROPENE	<150	ug/Kgdrywt	150	150	1.0
TRICHLOROETHENE	<150	ug/Kgdrywt	150	150	1.0
DIBROMOCHLOROMETHANE	<150	ug/Kgdrywt	150	150	1.0
1,1,2-TRICHLOROETHANE	<150	ug/Kgdrywt	150	150	1.0
BENZENE	<750	ug/Kgdrywt	150	750	5.0
TRANS-1,3-DICHLOROPROPENE	<150	ug/Kgdrywt	150	150	1.0
BROMOFORM	<150	ug/Kgdrywt	150	150	1.0
4-METHYL-2-PENTANONE	<450	ug/Kgdrywt	150	450	3
2-HEXANONE	<600	ug/Kgdrywt	150	600	4
TETRACHLOROETHENE	<150	ug/Kgdrywt	150	150	1.0
1,1,2,2-TETRACHLOROETHANE	<150	ug/Kgdrywt	150	150	1.0
TOLUENE	<750	ug/Kgdrywt	150	750	5.0
CHLOROBENZENE	<150	ug/Kgdrywt	150	150	1.0
ETHYLBENZENE	2900	ug/Kgdrywt	150	750	5.0
STYRENE	<150	ug/Kgdrywt	150	150	1.0
TOTAL XYLENES	9300	ug/Kgdrywt	150	750	5.0

Report Notes: None

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	87	%	150		
TOLUENE-D8	100	%	150		
P-BROMOFLUOROBENZENE	92	%	150		
1,2-DICHLOROETHANE-D4	91	%	150		

Report Notes: None

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<750	ug/Kgdrywt	150	750	5
CHLOROMETHANE	J400	ug/Kgdrywt	150	750	5
VINYL CHLORIDE	<1500	ug/Kgdrywt	150	1500	10
BROMOMETHANE	J550	ug/Kgdrywt	150	750	5
CHLOROETHANE	<750	ug/Kgdrywt	150	750	5
TRICHLOROFLUOROMETHANE	<750	ug/Kgdrywt	150	750	5
1,1-DICHLOROETHENE	<750	ug/Kgdrywt	150	750	5
METHYLENE CHLORIDE	B1200 U	ug/Kgdrywt	150	750	5
1,2-DICHLOROETHENE (TRANS)	<750	ug/Kgdrywt	150	750	5
1,1-DICHLOROETHANE	<750	ug/Kgdrywt	150	750	5
1,2-DICHLOROETHENE (CIS)	<750	ug/Kgdrywt	150	750	5
2,2-DICHLOROPROPANE	<750	ug/Kgdrywt	150	750	5
CHLOROFORM	<750	ug/Kgdrywt	150	750	5
BROMOCHLOROMETHANE	<750	ug/Kgdrywt	150	750	5
1,1,1-TRICHLOROETHANE	<750	ug/Kgdrywt	150	750	5
1,2-DICHLOROETHANE	<750	ug/Kgdrywt	150	750	5
1,1-DICHLOROPROPENE	<750	ug/Kgdrywt	150	750	5
CARBON TETRACHLORIDE	<750	ug/Kgdrywt	150	750	5
BENZENE	<750	ug/Kgdrywt	150	750	5
1,2-DICHLOROPROPANE	<750	ug/Kgdrywt	150	750	5
TRICHLOROETHENE	<750	ug/Kgdrywt	150	750	5
DIBROMOMETHANE	<750	ug/Kgdrywt	150	750	5
BROMODICHLOROMETHANE	<750	ug/Kgdrywt	150	750	5
CIS-1,3-DICHLOROPROPENE	<750	ug/Kgdrywt	150	750	5
TOLUENE	<750	ug/Kgdrywt	150	750	5
TRANS-1,3-DICHLOROPROPENE	<750	ug/Kgdrywt	150	750	5
1,1,2-TRICHLOROETHANE	<750	ug/Kgdrywt	150	750	5
1,3-DICHLOROPROPANE	<750	ug/Kgdrywt	150	750	5
DIBROMOCHLOROMETHANE	<750	ug/Kgdrywt	150	750	5
TETRACHLOROETHENE	<750	ug/Kgdrywt	150	750	5
1,2-DIBROMOETHANE	<750	ug/Kgdrywt	150	750	5
CHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
1,1,1,2-TETRACHLOROETHANE	<750	ug/Kgdrywt	150	750	5

Report Notes: B, J, O-1, O-2

0000027

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	2900	ug/Kgdrywt	150	750	5
BROMOFORM	<750	ug/Kgdrywt	150	750	5
STYRENE	<750	ug/Kgdrywt	150	750	5
1,1,2,2-TETRACHLOROETHANE	<750	ug/Kgdrywt	150	750	5
1,2,3-TRICHLOROPROPANE	<750	ug/Kgdrywt	150	750	5
ISOPROPYLBENZENE	2600	ug/Kgdrywt	150	750	5
BROMOBENZENE	<750	ug/Kgdrywt	150	750	5
2-CHLOROTOLUENE	<750	ug/Kgdrywt	150	750	5
N-PROPYLBENZENE	J580	ug/Kgdrywt	150	750	5
4-CHLOROTOLUENE	<750	ug/Kgdrywt	150	750	5
1,3,5-TRIMETHYLBENZENE	7800	ug/Kgdrywt	150	750	5
TERT-BUTYLBENZENE	<750	ug/Kgdrywt	150	750	5
1,2,4-TRICHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
SEC-BUTYLBENZENE	<750	ug/Kgdrywt	150	750	5
1,3-DICHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
P-ISOPROPYLTOLUENE	<750	ug/Kgdrywt	150	750	5
1,4-DICHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
1,2-DICHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
N-BUTYLBENZENE	<750	ug/Kgdrywt	150	750	5
1,2-DIBROMO-3-CHLOROPROPAN	<750	ug/Kgdrywt	150	750	5
1,2,4-TRIMETHYLBENZENE	4000	ug/Kgdrywt	150	750	5
NAPHTHALENE	J630	ug/Kgdrywt	150	750	5
HEXACHLOROBUTADIENE	<750	ug/Kgdrywt	150	750	5
1,2,3-TRICHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
MTBE	<750	ug/Kgdrywt	150	750	5
ACETONE	<1500	ug/Kgdrywt	150	1500	10
2-BUTANONE	<1500	ug/Kgdrywt	150	1500	10
4-METHYL-2-PENTANONE	<1500	ug/Kgdrywt	150	1500	10
2-HEXANONE	<1500	ug/Kgdrywt	150	1500	10
M+P-XYLENE	9300	ug/Kgdrywt	150	750	5
O-XYLENE	<750	ug/Kgdrywt	150	750	5
1,3,5 TRICHLOROBENZENE	<750	ug/Kgdrywt	150	750	5
VINYL ACETATE	<750	ug/Kgdrywt	150	750	5.0

Report Notes: B, J, O-1, O-2

0000028

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<750	ug/Kgdrywt	150	750	5
DIETHYL ETHER	<750	ug/Kgdrywt	150	750	5
TETRAHYDROFURAN	<1500	ug/Kgdrywt	150	1500	10
DIBROMOFLUOROMETHANE	87	%	150		
1,2-DICHLOROETHANE-D4	91	%	150		
TOLUENE-D8	100	%	150		
P-BROMOFLUOROBENZENE	92	%	150		

Report Notes: B, J, O-1, O-2

0000028A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.2	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
2-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.2	400	330
4-METHYLPHENOL	<400	ug/Kg	1.2	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.2	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.2	400	330
NITROBENZENE	<400	ug/Kg	1.2	400	330
ISOPHORONE	<400	ug/Kg	1.2	400	330
2-NITROPHENOL	<400	ug/Kg	1.2	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg UJ5	1.2	400	330
BIS(2-CHLOROETHOXY)METHANE	<400	ug/Kg	1.2	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.2	400	330
NAPHTHALENE	<400	ug/Kg	1.2	400	330
4-CHLOROANILINE	<400	ug/Kg	1.2	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.2	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg UJ5	1.2	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg UJ5	1.2	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.2	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.2	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.2	400	330
2-NITROANILINE	<980	ug/Kg	1.2	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.2	400	330
ACENAPHTHYLENE	<400	ug/Kg	1.2	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
3-NITROANILINE	<980	ug/Kg	1.2	980	820
ACENAPHTHENE	<400	ug/Kg	1.2	400	330

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.2	980	820
4-NITROPHENOL	<980	ug/Kg	1.2	980	820
DIBENZOFURAN	<400	ug/Kg	1.2	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.2	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.2	400	330
FLUORENE	<400	ug/Kg	1.2	400	330
4-NITROANILINE	<980	ug/Kg	1.2	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.2	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.2	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.2	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.2	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.2	980	820
PHENANTHRENE	<400	ug/Kg	1.2	400	330
ANTHRACENE	<400	ug/Kg	1.2	400	330
CARBAZOLE	<400	ug/Kg	1.2	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.2	400	330
FLUORANTHENE	<400	ug/Kg	1.2	400	330
PYRENE	<400	ug/Kg	1.2	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.2	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.2	400	330
BENZO[A]ANTHRACENE	<400	ug/Kg	1.2	400	330
CHRYSENE	<400	ug/Kg	1.2	400	330
BIS(2-ETHYLHEXYL)PHTHALATE	<400	ug/Kg	1.2	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.2	400	330
BENZO[B]FLUORANTHENE	<400	ug/Kg	1.2	400	330
BENZO[K]FLUORANTHENE	<400	ug/Kg	1.2	400	330
BENZO[A]PYRENE	<400	ug/Kg	1.2	400	330
INDENO[1,2,3-CD]PYRENE	<400	ug/Kg	1.2	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.2	400	330
BENZO[G,H,I]PERYLENE	<400	ug/Kg	1.2	400	330
2-FLUOROPHENOL	62	%	1.2		
PHENOL-D5	56	%	1.2		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-5
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 84
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S002-1098-12.7/13.6	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	52	%	1.2		
2-FLUOROBIPHENYL	61	%	1.2		
2,4,6-TRIBROMOPHENOL	70	%	1.2		
TERPHENYL-D14	62	%	1.2		

Report Notes:

0000031

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S004-1098-12.3/13.3

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 89.0 **Lab Sample ID:** WO3179-006

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	5.3			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-6
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S004-1098-12.3/13.3	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	89.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-6
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S004-1098-12.3/13.3	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	7.8	mg/kgdrywt	1.1	2.5	SW8015M	10/24/98	JY	
4-Bromofluorobenzene	108.	%	1.1		SW8015M	10/24/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	63.	%	1.1		SW8015M	10/24/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<76	ug/Kgdrywt	38	76	2.0
BROMOMETHANE	<76	ug/Kgdrywt	38	76	2.0
VINYL CHLORIDE	<76	ug/Kgdrywt	38	76	2.0
CHLOROETHANE	<76	ug/Kgdrywt	38	76	2.0
METHYLENE CHLORIDE	220 U	ug/Kgdrywt	38	38	1.0
ACETONE	<190	ug/Kgdrywt	38	190	5
CARBON DISULFIDE	<38	ug/Kgdrywt	38	38	1.0
1,1-DICHLOROETHENE	<38	ug/Kgdrywt	38	38	1.0
1,1-DICHLOROETHANE	<38	ug/Kgdrywt	38	38	1.0
TOTAL 1,2-DICHLOROETHENE	<38	ug/Kgdrywt	38	38	1.0
CHLOROFORM	<38	ug/Kgdrywt	38	38	1.0
1,2-DICHLOROETHANE	<38	ug/Kgdrywt	38	38	1.0
2-BUTANONE	<190	ug/Kgdrywt	38	190	5
1,1,1-TRICHLOROETHANE	<38	ug/Kgdrywt	38	38	1.0
CARBON TETRACHLORIDE	<38	ug/Kgdrywt	38	38	1.0
BROMODICHLOROMETHANE	<38	ug/Kgdrywt	38	38	1.0
1,2-DICHLOROPROPANE	<38	ug/Kgdrywt	38	38	1.0
CIS-1,3-DICHLOROPROPENE	<38	ug/Kgdrywt	38	38	1.0
TRICHLOROETHENE	<38	ug/Kgdrywt	38	38	1.0
DIBROMOCHLOROMETHANE	<38	ug/Kgdrywt	38	38	1.0
1,1,2-TRICHLOROETHANE	<38	ug/Kgdrywt	38	38	1.0
BENZENE	<190	ug/Kgdrywt	38	190	5.0
TRANS-1,3-DICHLOROPROPENE	<38	ug/Kgdrywt	38	38	1.0
BROMOFORM	<38	ug/Kgdrywt	38	38	1.0
4-METHYL-2-PENTANONE	<110	ug/Kgdrywt	38	110	3
2-HEXANONE	<150	ug/Kgdrywt	38	150	4
TETRACHLOROETHENE	<38	ug/Kgdrywt	38	38	1.0
1,1,2,2-TETRACHLOROETHANE	<38	ug/Kgdrywt	38	38	1.0
TOLUENE	<190	ug/Kgdrywt	38	190	5.0
CHLOROBENZENE	<38	ug/Kgdrywt	38	38	1.0
ETHYLBENZENE	<190	ug/Kgdrywt	38	190	5.0
STYRENE	<38	ug/Kgdrywt	38	38	1.0
TOTAL XYLENES	<190	ug/Kgdrywt	38	190	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	108	%	38		
TOLUENE-D8	114	%	38		
P-BROMOFLUOROBENZENE	112	%	38		
1,2-DICHLOROETHANE-D4	112	%	38		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<190	ug/Kgdrywt	38	190	5
CHLOROMETHANE	<190	ug/Kgdrywt	38	190	5
VINYL CHLORIDE	<380	ug/Kgdrywt	38	380	10
BROMOMETHANE	<190	ug/Kgdrywt	38	190	5
CHLOROETHANE	<190	ug/Kgdrywt	38	190	5
TRICHLOROFLUOROMETHANE	<190	ug/Kgdrywt	38	190	5
1,1-DICHLOROETHENE	<190	ug/Kgdrywt	38	190	5
METHYLENE CHLORIDE	220 U'	ug/Kgdrywt	38	190	5
1,2-DICHLOROETHENE (TRANS)	<190	ug/Kgdrywt	38	190	5
1,1-DICHLOROETHANE	<190	ug/Kgdrywt	38	190	5
1,2-DICHLOROETHENE (CIS)	<190	ug/Kgdrywt	38	190	5
2,2-DICHLOROPROPANE	<190	ug/Kgdrywt	38	190	5
CHLOROFORM	<190	ug/Kgdrywt	38	190	5
BROMOCHLOROMETHANE	<190	ug/Kgdrywt	38	190	5
1,1,1-TRICHLOROETHANE	<190	ug/Kgdrywt	38	190	5
1,2-DICHLOROETHANE	<190	ug/Kgdrywt	38	190	5
1,1-DICHLOROPROPENE	<190	ug/Kgdrywt	38	190	5
CARBON TETRACHLORIDE	<190	ug/Kgdrywt	38	190	5
BENZENE	<190	ug/Kgdrywt	38	190	5
1,2-DICHLOROPROPANE	<190	ug/Kgdrywt	38	190	5
TRICHLOROETHENE	<190	ug/Kgdrywt	38	190	5
DIBROMOMETHANE	<190	ug/Kgdrywt	38	190	5
BROMODICHLOROMETHANE	<190	ug/Kgdrywt	38	190	5
CIS-1,3-DICHLOROPROPENE	<190	ug/Kgdrywt	38	190	5
TOLUENE	<190	ug/Kgdrywt	38	190	5
TRANS-1,3-DICHLOROPROPENE	<190	ug/Kgdrywt	38	190	5
1,1,2-TRICHLOROETHANE	<190	ug/Kgdrywt	38	190	5
1,3-DICHLOROPROPANE	<190	ug/Kgdrywt	38	190	5
DIBROMOCHLOROMETHANE	<190	ug/Kgdrywt	38	190	5
TETRACHLOROETHENE	<190	ug/Kgdrywt	38	190	5
1,2-DIBROMOETHANE	<190	ug/Kgdrywt	38	190	5
CHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
1,1,1,2-TETRACHLOROETHANE	<190	ug/Kgdrywt	38	190	5

Report Notes:

0000035

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<190	ug/Kgdrywt	38	190	5
BROMOFORM	<190	ug/Kgdrywt	38	190	5
STYRENE	<190	ug/Kgdrywt	38	190	5
1,1,2,2-TETRACHLOROETHANE	<190	ug/Kgdrywt	38	190	5
1,2,3-TRICHLOROPROPANE	<190	ug/Kgdrywt	38	190	5
ISOPROPYLBENZENE	<190	ug/Kgdrywt	38	190	5
BROMOBENZENE	<190	ug/Kgdrywt	38	190	5
2-CHLOROTOLUENE	<190	ug/Kgdrywt	38	190	5
N-PROPYLBENZENE	<190	ug/Kgdrywt	38	190	5
4-CHLOROTOLUENE	<190	ug/Kgdrywt	38	190	5
1,3,5-TRIMETHYLBENZENE	<190	ug/Kgdrywt	38	190	5
TERT-BUTYLBENZENE	<190	ug/Kgdrywt	38	190	5
1,2,4-TRICHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
SEC-BUTYLBENZENE	<190	ug/Kgdrywt	38	190	5
1,3-DICHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
P-ISOPROPYLTOLUENE	<190	ug/Kgdrywt	38	190	5
1,4-DICHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
1,2-DICHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
N-BUTYLBENZENE	<190	ug/Kgdrywt	38	190	5
1,2-DIBROMO-3-CHLOROPROPAN	<190	ug/Kgdrywt	38	190	5
1,2,4-TRIMETHYLBENZENE	<190	ug/Kgdrywt	38	190	5
NAPHTHALENE	<190	ug/Kgdrywt	38	190	5
HEXACHLOROBUTADIENE	<190	ug/Kgdrywt	38	190	5
1,2,3-TRICHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
MTBE	<190	ug/Kgdrywt	38	190	5
ACETONE	<380	ug/Kgdrywt	38	380	10
2-BUTANONE	<380	ug/Kgdrywt	38	380	10
4-METHYL-2-PENTANONE	<380	ug/Kgdrywt	38	380	10
2-HEXANONE	<380	ug/Kgdrywt	38	380	10
M+P-XYLENE	<190	ug/Kgdrywt	38	190	5
O-XYLENE	<190	ug/Kgdrywt	38	190	5
1,3,5-TRICHLOROBENZENE	<190	ug/Kgdrywt	38	190	5
VINYL ACETATE	<190	ug/Kgdrywt	38	190	5.0

Report Notes:

0000036

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<190	ug/Kgdrywt	38	190	5
DIETHYL ETHER	<190	ug/Kgdrywt	38	190	5
TETRAHYDROFURAN	<380	ug/Kgdrywt	38	380	10
DIBROMOFLUOROMETHANE	108	%	38		
1,2-DICHLOROETHANE-D4	112	%	38		
TOLUENE-D8	114	%	38		
P-BROMOFLUOROBENZENE	112	%	38		

Report Notes:

00000036A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<360	ug/Kg	1.1	360	330
BIS(2-CHLOROETHYL)ETHER	<360	ug/Kg	1.1	360	330
2-CHLOROPHENOL	<360	ug/Kg	1.1	360	330
1,3-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
1,4-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
1,2-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
2-METHYLPHENOL	<360	ug/Kg	1.1	360	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<360	ug/Kg	1.1	360	330
4-METHYLPHENOL	<360	ug/Kg	1.1	360	330
N-NITROSO-DI-N-PROPYLAMINE	<360	ug/Kg	1.1	360	330
HEXACHLOROETHANE	<360	ug/Kg	1.1	360	330
NITROBENZENE	<360	ug/Kg	1.1	360	330
ISOPHORONE	<360	ug/Kg	1.1	360	330
2-NITROPHENOL	<360	ug/Kg	1.1	360	330
2,4-DIMETHYLPHENOL	<360	ug/Kg UJ5	1.1	360	330
BIS(2-CHLOROETHOXY)METHANE	<360	ug/Kg	1.1	360	330
2,4-DICHLOROPHENOL	<360	ug/Kg	1.1	360	330
1,2,4-TRICHLOROBENZENE	<360	ug/Kg	1.1	360	330
NAPHTHALENE	<360	ug/Kg	1.1	360	330
4-CHLOROANILINE	<360	ug/Kg	1.1	360	330
HEXACHLOROBUTADIENE	<360	ug/Kg	1.1	360	330
4-CHLORO-3-METHYLPHENOL	<360	ug/Kg	1.1	360	330
2-METHYLNAPHTHALENE	<360	ug/Kg UJ5	1.1	360	330
HEXACHLOROCYCLOPENTADIEN	<360	ug/Kg UJ5	1.1	360	330
2,4,6-TRICHLOROPHENOL	<360	ug/Kg	1.1	360	330
2,4,5-TRICHLOROPHENOL	<900	ug/Kg	1.1	900	820
2-CHLORONAPHTHALENE	<360	ug/Kg	1.1	360	330
2-NITROANILINE	<900	ug/Kg	1.1	900	820
DIMETHYL PHTHALATE	<360	ug/Kg	1.1	360	330
ACENAPHTHYLENE	<360	ug/Kg	1.1	360	330
2,6-DINITROTOLUENE	<360	ug/Kg	1.1	360	330
3-NITROANILINE	<900	ug/Kg	1.1	900	820
ACENAPHTHENE	<360	ug/Kg	1.1	360	330

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 10/28/98
PO No.: 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<900	ug/Kg	1.1	900	820
4-NITROPHENOL	<900	ug/Kg	1.1	900	820
DIBENZOFURAN	<360	ug/Kg	1.1	360	330
2,4-DINITROTOLUENE	<360	ug/Kg	1.1	360	330
DIETHYLPHTHALATE	<360	ug/Kg	1.1	360	330
4-CHLOROPHENYL-PHENYLETHE	<360	ug/Kg	1.1	360	330
FLUORENE	<360	ug/Kg	1.1	360	330
4-NITROANILINE	<900	ug/Kg	1.1	900	820
4,6-DINITRO-2-METHYLPHENOL	<900	ug/Kg	1.1	900	820
N-NITROSODIPHENYLAMINE	<360	ug/Kg	1.1	360	330
4-BROMOPHENYL-PHENYLETHER	<360	ug/Kg	1.1	360	330
HEXACHLOROBENZENE	<360	ug/Kg	1.1	360	330
PENTACHLOROPHENOL	<900	ug/Kg	1.1	900	820
PHENANTHRENE	<360	ug/Kg	1.1	360	330
ANTHRACENE	<360	ug/Kg	1.1	360	330
CARBAZOLE	<360	ug/Kg	1.1	360	330
DI-N-BUTYLPHTHALATE	<360	ug/Kg	1.1	360	330
FLUORANTHENE	<360	ug/Kg	1.1	360	330
PYRENE	<360	ug/Kg	1.1	360	330
BUTYLBENZYLPHTHALATE	<360	ug/Kg	1.1	360	330
3,3'-DICHLOROBENZIDINE	<360	ug/Kg	1.1	360	330
BENZO[A]ANTHRACENE	<360	ug/Kg	1.1	360	330
CHRYSENE	<360	ug/Kg	1.1	360	330
BIS(2-ETHYLHEXYL)PHTHALATE	<360	ug/Kg	1.1	360	330
DI-N-OCTYLPHTHALATE	<360	ug/Kg	1.1	360	330
BENZO[B]FLUORANTHENE	<360	ug/Kg	1.1	360	330
BENZO[K]FLUORANTHENE	<360	ug/Kg	1.1	360	330
BENZO[A]PYRENE	<360	ug/Kg	1.1	360	330
INDENO[1,2,3-CD]PYRENE	<360	ug/Kg	1.1	360	330
DIBENZ[A,H]ANTHRACENE	<360	ug/Kg	1.1	360	330
BENZO[G,H,I]PERYLENE	<360	ug/Kg	1.1	360	330
2-FLUOROPHENOL	54	%	1.1		
PHENOL-D5	51	%	1.1		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-6
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-12.3/13.3	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	44	%	1.1		
2-FLUOROBIPHENYL	58	%	1.1		
2,4,6-TRIBROMOPHENOL	66	%	1.1		
TERPHENYL-D14	56	%	1.1		

Report Notes:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** S003-1098-8/9

Matrix: SOIL | **SDG Name:** WO3179

Percent Solids: 89.4 | **Lab Sample ID:** WO3179-007

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	11.8			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-7
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S003-1098-8/9	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	89.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-7
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S003-1098-8/9	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	<2.8	mg/kgdrywt	1.1	2.5	SW8015M	10/23/98	JY	
4-Bromofluorobenzene	99.	%	1.1		SW8015M	10/23/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	99.	%	1.1		SW8015M	10/23/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-7
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-8/9	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<100	ug/Kgdrywt	50	100	2.0
BROMOMETHANE	<100	ug/Kgdrywt	50	100	2.0
VINYL CHLORIDE	<100	ug/Kgdrywt	50	100	2.0
CHLOROETHANE	<100	ug/Kgdrywt	50	100	2.0
METHYLENE CHLORIDE	380 U	ug/Kgdrywt	50	50	1.0
ACETONE	<250	ug/Kgdrywt	50	250	5
CARBON DISULFIDE	<50	ug/Kgdrywt	50	50	1.0
1,1-DICHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
1,1-DICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
TOTAL 1,2-DICHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
CHLOROFORM	<50	ug/Kgdrywt	50	50	1.0
1,2-DICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
2-BUTANONE	<250	ug/Kgdrywt	50	250	5
1,1,1-TRICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
CARBON TETRACHLORIDE	<50	ug/Kgdrywt	50	50	1.0
BROMODICHLOROMETHANE	<50	ug/Kgdrywt	50	50	1.0
1,2-DICHLOROPROPANE	<50	ug/Kgdrywt	50	50	1.0
CIS-1,3-DICHLOROPROPENE	<50	ug/Kgdrywt	50	50	1.0
TRICHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
DIBROMOCHLOROMETHANE	<50	ug/Kgdrywt	50	50	1.0
1,1,2-TRICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
BENZENE	<250	ug/Kgdrywt	50	250	5.0
TRANS-1,3-DICHLOROPROPENE	<50	ug/Kgdrywt	50	50	1.0
BROMOFORM	<50	ug/Kgdrywt	50	50	1.0
4-METHYL-2-PENTANONE	<150	ug/Kgdrywt	50	150	3
2-HEXANONE	<200	ug/Kgdrywt	50	200	4
TETRACHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
1,1,2,2-TETRACHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
TOLUENE	<250	ug/Kgdrywt	50	250	5.0
CHLOROBENZENE	<50	ug/Kgdrywt	50	50	1.0
ETHYLBENZENE	<250	ug/Kgdrywt	50	250	5.0
STYRENE	<50	ug/Kgdrywt	50	50	1.0
TOTAL XYLENES	<250	ug/Kgdrywt	50	250	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-7
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-8/9	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	108	%	50		
TOLUENE-D8	116	%	50		
P-BROMOFLUOROBENZENE	109	%	50		
1,2-DICHLOROETHANE-D4	108	%	50		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-7
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-8/9	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
VINYL CHLORIDE	<500	ug/Kgdrywt	50	500	10
BROMOMETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROETHANE	<250	ug/Kgdrywt	50	250	5
TRICHLOROFLUOROMETHANE	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROETHENE	<250	ug/Kgdrywt	50	250	5
METHYLENE CHLORIDE	380 U'	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHENE (TRANS)	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHENE (CIS)	<250	ug/Kgdrywt	50	250	5
2,2-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
CHLOROFORM	<250	ug/Kgdrywt	50	250	5
BROMOCHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
1,1,1-TRICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
CARBON TETRACHLORIDE	<250	ug/Kgdrywt	50	250	5
BENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
TRICHLOROETHENE	<250	ug/Kgdrywt	50	250	5
DIBROMOMETHANE	<250	ug/Kgdrywt	50	250	5
BROMODICHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
CIS-1,3-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
TOLUENE	<250	ug/Kgdrywt	50	250	5
TRANS-1,3-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
1,1,2-TRICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,3-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
DIBROMOCHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
TETRACHLOROETHENE	<250	ug/Kgdrywt	50	250	5
1,2-DIBROMOETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
1,1,1,2-TETRACHLOROETHANE	<250	ug/Kgdrywt	50	250	5

Report Notes:

0000043

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-7
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-8/9	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
BROMOFORM	<250	ug/Kgdrywt	50	250	5
STYRENE	<250	ug/Kgdrywt	50	250	5
1,1,2,2-TETRACHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2,3-TRICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
ISOPROPYLBENZENE	<250	ug/Kgdrywt	50	250	5
BROMOBENZENE	<250	ug/Kgdrywt	50	250	5
2-CHLOROTOLUENE	<250	ug/Kgdrywt	50	250	5
N-PROPYLBENZENE	<250	ug/Kgdrywt	50	250	5
4-CHLOROTOLUENE	<250	ug/Kgdrywt	50	250	5
1,3,5-TRIMETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
TERT-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,2,4-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
SEC-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,3-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
P-ISOPROPYLTOLUENE	<250	ug/Kgdrywt	50	250	5
1,4-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
N-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DIBROMO-3-CHLOROPROPAN	<250	ug/Kgdrywt	50	250	5
1,2,4-TRIMETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
NAPHTHALENE	<250	ug/Kgdrywt	50	250	5
HEXACHLOROBUTADIENE	<250	ug/Kgdrywt	50	250	5
1,2,3-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
MTBE	<250	ug/Kgdrywt	50	250	5
ACETONE	<500	ug/Kgdrywt	50	500	10
2-BUTANONE	<500	ug/Kgdrywt	50	500	10
4-METHYL-2-PENTANONE	<500	ug/Kgdrywt	50	500	10
2-HEXANONE	<500	ug/Kgdrywt	50	500	10
M+P-XYLENE	<250	ug/Kgdrywt	50	250	5
O-XYLENE	<250	ug/Kgdrywt	50	250	5
1,3,5-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
VINYL ACETATE	<250	ug/Kgdrywt	50	250	5.0

Report Notes:

0000044

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-7
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-8/9	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<250	ug/Kgdrywt	50	250	5
DIETHYL ETHER	<250	ug/Kgdrywt	50	250	5
TETRAHYDROFURAN	<500	ug/Kgdrywt	50	500	10
DIBROMOFLUOROMETHANE	108	%	50		
1,2-DICHLOROETHANE-D4	108	%	50		
TOLUENE-D8	116	%	50		
P-BROMOFLUOROBENZENE	109	%	50		

Report Notes:

0000044A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-8
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-8/10	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	106	%	50		
TOLUENE-D8	113	%	50		
P-BROMOFLUOROBENZENE	107	%	50		
1,2-DICHLOROETHANE-D4	109	%	50		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-8
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-8/10	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
VINYL CHLORIDE	<500	ug/Kgdrywt	50	500	10
BROMOMETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROETHANE	<250	ug/Kgdrywt	50	250	5
TRICHLOROFLUOROMETHANE	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROETHENE	<250	ug/Kgdrywt	50	250	5
METHYLENE CHLORIDE	940 U	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHENE (TRANS)	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHENE (CIS)	<250	ug/Kgdrywt	50	250	5
2,2-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
CHLOROFORM	<250	ug/Kgdrywt	50	250	5
BROMOCHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
1,1,1-TRICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
CARBON TETRACHLORIDE	<250	ug/Kgdrywt	50	250	5
BENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
TRICHLOROETHENE	<250	ug/Kgdrywt	50	250	5
DIBROMOMETHANE	<250	ug/Kgdrywt	50	250	5
BROMODICHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
CIS-1,3-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
TOLUENE	<250	ug/Kgdrywt	50	250	5
TRANS-1,3-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
1,1,2-TRICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,3-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
DIBROMOCHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
TETRACHLOROETHENE	<250	ug/Kgdrywt	50	250	5
1,2-DIBROMOETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
1,1,1,2-TETRACHLOROETHANE	<250	ug/Kgdrywt	50	250	5

Report Notes: J

0000048

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-8
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-8/10	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
BROMOFORM	<250	ug/Kgdrywt	50	250	5
STYRENE	<250	ug/Kgdrywt	50	250	5
1,1,2,2-TETRACHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2,3-TRICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
ISOPROPYLBENZENE	<250	ug/Kgdrywt	50	250	5
BROMOBENZENE	<250	ug/Kgdrywt	50	250	5
2-CHLOROTOLUENE	<250	ug/Kgdrywt	50	250	5
N-PROPYLBENZENE	<250	ug/Kgdrywt	50	250	5
4-CHLOROTOLUENE	<250	ug/Kgdrywt	50	250	5
1,3,5-TRIMETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
TERT-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,2,4-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
SEC-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,3-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
P-ISOPROPYLTOLUENE	<250	ug/Kgdrywt	50	250	5
1,4-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
N-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DIBROMO-3-CHLOROPROPAN	<250	ug/Kgdrywt	50	250	5
1,2,4-TRIMETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
NAPHTHALENE	<250	ug/Kgdrywt	50	250	5
HEXACHLOROBUTADIENE	<250	ug/Kgdrywt	50	250	5
1,2,3-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
MTBE	<250	ug/Kgdrywt	50	250	5
ACETONE	5000 ~~J320~~	ug/Kgdrywt	50	500	10
2-BUTANONE	<500	ug/Kgdrywt	50	500	10
4-METHYL-2-PENTANONE	<500	ug/Kgdrywt	50	500	10
2-HEXANONE	<500	ug/Kgdrywt	50	500	10
M+P-XYLENE	<250	ug/Kgdrywt	50	250	5
O-XYLENE	<250	ug/Kgdrywt	50	250	5
1,3,5-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
VINYL ACETATE	<250	ug/Kgdrywt	50	250	5.0

Report Notes: J

0000049

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-8
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S004-1098-8/10	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<250	ug/Kgdrywt	50	250	5
DIETHYL ETHER	<250	ug/Kgdrywt	50	250	5
TETRAHYDROFURAN	<500	ug/Kgdrywt	50	500	10
DIBROMOFLUOROMETHANE	106	%	50		
1,2-DICHLOROETHANE-D4	109	%	50		
TOLUENE-D8	113	%	50		
P-BROMOFLUOROBENZENE	107	%	50		

Report Notes: J

0000049A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S006-1098-13.5/14

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 85.5 **Lab Sample ID:** WO3179-009

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	6.3			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-9
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S006-1098-13.5/14	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	85.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-9
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S006-1098-13.5/14	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	<3.	mg/kgdrywt	1.2	2.5	SW8015M	10/23/98	JY	
4-Bromofluorobenzene	96.	%	1.2		SW8015M	10/23/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	62.	%	1.2		SW8015M	10/23/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-9
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 85
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S006-1098-13.5/14	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<70	ug/Kgdrywt	35	70	2.0
BROMOMETHANE	<70	ug/Kgdrywt	35	70	2.0
VINYL CHLORIDE	<70	ug/Kgdrywt	35	70	2.0
CHLOROETHANE	<70	ug/Kgdrywt	35	70	2.0
METHYLENE CHLORIDE	260 U'	ug/Kgdrywt	35	35	1.0
ACETONE	<180	ug/Kgdrywt	35	180	5
CARBON DISULFIDE	<35	ug/Kgdrywt	35	35	1.0
1,1-DICHLOROETHENE	<35	ug/Kgdrywt	35	35	1.0
1,1-DICHLOROETHANE	<35	ug/Kgdrywt	35	35	1.0
TOTAL 1,2-DICHLOROETHENE	<35	ug/Kgdrywt	35	35	1.0
CHLOROFORM	<35	ug/Kgdrywt	35	35	1.0
1,2-DICHLOROETHANE	<35	ug/Kgdrywt	35	35	1.0
2-BUTANONE	<180	ug/Kgdrywt	35	180	5
1,1,1-TRICHLOROETHANE	<35	ug/Kgdrywt	35	35	1.0
CARBON TETRACHLORIDE	<35	ug/Kgdrywt	35	35	1.0
BROMODICHLOROMETHANE	<35	ug/Kgdrywt	35	35	1.0
1,2-DICHLOROPROPANE	<35	ug/Kgdrywt	35	35	1.0
CIS-1,3-DICHLOROPROPENE	<35	ug/Kgdrywt	35	35	1.0
TRICHLOROETHENE	<35	ug/Kgdrywt	35	35	1.0
DIBROMOCHLOROMETHANE	<35	ug/Kgdrywt	35	35	1.0
1,1,2-TRICHLOROETHANE	<35	ug/Kgdrywt	35	35	1.0
BENZENE	<180	ug/Kgdrywt	35	180	5.0
TRANS-1,3-DICHLOROPROPENE	<35	ug/Kgdrywt	35	35	1.0
BROMOFORM	<35	ug/Kgdrywt	35	35	1.0
4-METHYL-2-PENTANONE	<100	ug/Kgdrywt	35	100	3
2-HEXANONE	<140	ug/Kgdrywt	35	140	4
TETRACHLOROETHENE	<35	ug/Kgdrywt	35	35	1.0
1,1,2,2-TETRACHLOROETHANE	<35	ug/Kgdrywt	35	35	1.0
TOLUENE	<180	ug/Kgdrywt	35	180	5.0
CHLOROBENZENE	<35	ug/Kgdrywt	35	35	1.0
ETHYLBENZENE	<180	ug/Kgdrywt	35	180	5.0
STYRENE	<35	ug/Kgdrywt	35	35	1.0
TOTAL XYLENES	<180	ug/Kgdrywt	35	180	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-9
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 85
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S006-1098-13.5/14	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	112	%	35		
TOLUENE-D8	115	%	35		
P-BROMOFLUOROBENZENE	108	%	35		
1,2-DICHLOROETHANE-D4	110	%	35		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-9
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 85
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S006-1098-13.5/14	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<180	ug/Kgdrywt	35	180	5
CHLOROMETHANE	<180	ug/Kgdrywt	35	180	5
VINYL CHLORIDE	<350	ug/Kgdrywt	35	350	10
BROMOMETHANE	<180	ug/Kgdrywt	35	180	5
CHLOROETHANE	<180	ug/Kgdrywt	35	180	5
TRICHLOROFLUOROMETHANE	<180	ug/Kgdrywt	35	180	5
1,1-DICHLOROETHENE	<180	ug/Kgdrywt	35	180	5
METHYLENE CHLORIDE	260 U	ug/Kgdrywt	35	180	5
1,2-DICHLOROETHENE (TRANS)	<180	ug/Kgdrywt	35	180	5
1,1-DICHLOROETHANE	<180	ug/Kgdrywt	35	180	5
1,2-DICHLOROETHENE (CIS)	<180	ug/Kgdrywt	35	180	5
2,2-DICHLOROPROPANE	<180	ug/Kgdrywt	35	180	5
CHLOROFORM	<180	ug/Kgdrywt	35	180	5
BROMOCHLOROMETHANE	<180	ug/Kgdrywt	35	180	5
1,1,1-TRICHLOROETHANE	<180	ug/Kgdrywt	35	180	5
1,2-DICHLOROETHANE	<180	ug/Kgdrywt	35	180	5
1,1-DICHLOROPROPENE	<180	ug/Kgdrywt	35	180	5
CARBON TETRACHLORIDE	<180	ug/Kgdrywt	35	180	5
BENZENE	<180	ug/Kgdrywt	35	180	5
1,2-DICHLOROPROPANE	<180	ug/Kgdrywt	35	180	5
TRICHLOROETHENE	<180	ug/Kgdrywt	35	180	5
DIBROMOMETHANE	<180	ug/Kgdrywt	35	180	5
BROMODICHLOROMETHANE	<180	ug/Kgdrywt	35	180	5
CIS-1,3-DICHLOROPROPENE	<180	ug/Kgdrywt	35	180	5
TOLUENE	<180	ug/Kgdrywt	35	180	5
TRANS-1,3-DICHLOROPROPENE	<180	ug/Kgdrywt	35	180	5
1,1,2-TRICHLOROETHANE	<180	ug/Kgdrywt	35	180	5
1,3-DICHLOROPROPANE	<180	ug/Kgdrywt	35	180	5
DIBROMOCHLOROMETHANE	<180	ug/Kgdrywt	35	180	5
TETRACHLOROETHENE	<180	ug/Kgdrywt	35	180	5
1,2-DIBROMOETHANE	<180	ug/Kgdrywt	35	180	5
CHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
1,1,1,2-TETRACHLOROETHANE	<180	ug/Kgdrywt	35	180	5

Report Notes:

0000053

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-9
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 85
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S006-1098-13.5/14	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<180	ug/Kgdrywt	35	180	5
BROMOFORM	<180	ug/Kgdrywt	35	180	5
STYRENE	<180	ug/Kgdrywt	35	180	5
1,1,2,2-TETRACHLOROETHANE	<180	ug/Kgdrywt	35	180	5
1,2,3-TRICHLOROPROPANE	<180	ug/Kgdrywt	35	180	5
ISOPROPYLBENZENE	<180	ug/Kgdrywt	35	180	5
BROMOBENZENE	<180	ug/Kgdrywt	35	180	5
2-CHLOROTOLUENE	<180	ug/Kgdrywt	35	180	5
N-PROPYLBENZENE	<180	ug/Kgdrywt	35	180	5
4-CHLOROTOLUENE	<180	ug/Kgdrywt	35	180	5
1,3,5-TRIMETHYLBENZENE	<180	ug/Kgdrywt	35	180	5
TERT-BUTYLBENZENE	<180	ug/Kgdrywt	35	180	5
1,2,4-TRICHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
SEC-BUTYLBENZENE	<180	ug/Kgdrywt	35	180	5
1,3-DICHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
P-ISOPROPYLTOLUENE	<180	ug/Kgdrywt	35	180	5
1,4-DICHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
1,2-DICHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
N-BUTYLBENZENE	<180	ug/Kgdrywt	35	180	5
1,2-DIBROMO-3-CHLOROPROPAN	<180	ug/Kgdrywt	35	180	5
1,2,4-TRIMETHYLBENZENE	<180	ug/Kgdrywt	35	180	5
NAPHTHALENE	<180	ug/Kgdrywt	35	180	5
HEXACHLOROBUTADIENE	<180	ug/Kgdrywt	35	180	5
1,2,3-TRICHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
MTBE	<180	ug/Kgdrywt	35	180	5
ACETONE	<350	ug/Kgdrywt	35	350	10
2-BUTANONE	<350	ug/Kgdrywt	35	350	10
4-METHYL-2-PENTANONE	<350	ug/Kgdrywt	35	350	10
2-HEXANONE	<350	ug/Kgdrywt	35	350	10
M+P-XYLENE	<180	ug/Kgdrywt	35	180	5
O-XYLENE	<180	ug/Kgdrywt	35	180	5
1,3,5-TRICHLOROBENZENE	<180	ug/Kgdrywt	35	180	5
VINYL ACETATE	<180	ug/Kgdrywt	35	180	5.0

Report Notes:

0000054

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-9
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 85
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S006-1098-13.5/14	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<180	ug/Kgdrywt	35	180	5
DIETHYL ETHER	<180	ug/Kgdrywt	35	180	5
TETRAHYDROFURAN	<350	ug/Kgdrywt	35	350	10
DIBROMOFLUOROMETHANE	112	%	35		
1,2-DICHLOROETHANE-D4	110	%	35		
TOLUENE-D8	115	%	35		
P-BROMOFLUOROBENZENE	108	%	35		

Report Notes:

0000054A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S007-1098-4.5/5.5

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 91.8 **Lab Sample ID:** WO3179-010

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	8.5			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-10
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S007-1098-4.5/5.5	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	92.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-10
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S007-1098-4.5/5.5	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	29.	mg/kgdrywt	1.1	2.5	SW8015M	10/23/98	JY	
4-Bromofluorobenzene	121.	%	1.1		SW8015M	10/23/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	103.	%	1.1		SW8015M	10/23/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-10
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S007-1098-4.5/5.5	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<110	ug/Kgdrywt	53	110	2.0
BROMOMETHANE	<110	ug/Kgdrywt	53	110	2.0
VINYL CHLORIDE	<110	ug/Kgdrywt	53	110	2.0
CHLOROETHANE	<110	ug/Kgdrywt	53	110	2.0
METHYLENE CHLORIDE	900 U'	ug/Kgdrywt	53	53	1.0
ACETONE	300 U'	ug/Kgdrywt	53	260	5
CARBON DISULFIDE	<53	ug/Kgdrywt	53	53	1.0
1,1-DICHLOROETHENE	<53	ug/Kgdrywt	53	53	1.0
1,1-DICHLOROETHANE	<53	ug/Kgdrywt	53	53	1.0
TOTAL 1,2-DICHLOROETHENE	<53	ug/Kgdrywt	53	53	1.0
CHLOROFORM	<53	ug/Kgdrywt	53	53	1.0
1,2-DICHLOROETHANE	<53	ug/Kgdrywt	53	53	1.0
2-BUTANONE	<260	ug/Kgdrywt	53	260	5
1,1,1-TRICHLOROETHANE	<53	ug/Kgdrywt	53	53	1.0
CARBON TETRACHLORIDE	<53	ug/Kgdrywt	53	53	1.0
BROMODICHLOROMETHANE	<53	ug/Kgdrywt	53	53	1.0
1,2-DICHLOROPROPANE	<53	ug/Kgdrywt	53	53	1.0
CIS-1,3-DICHLOROPROPENE	<53	ug/Kgdrywt	53	53	1.0
TRICHLOROETHENE	<53	ug/Kgdrywt	53	53	1.0
DIBROMOCHLOROMETHANE	<53	ug/Kgdrywt	53	53	1.0
1,1,2-TRICHLOROETHANE	<53	ug/Kgdrywt	53	53	1.0
BENZENE	<260	ug/Kgdrywt	53	260	5.0
TRANS-1,3-DICHLOROPROPENE	<53	ug/Kgdrywt	53	53	1.0
BROMOFORM	<53	ug/Kgdrywt	53	53	1.0
4-METHYL-2-PENTANONE	<160	ug/Kgdrywt	53	160	3
2-HEXANONE	<210	ug/Kgdrywt	53	210	4
TETRACHLOROETHENE	<53	ug/Kgdrywt	53	53	1.0
1,1,2,2-TETRACHLOROETHANE	<53	ug/Kgdrywt	53	53	1.0
TOLUENE	<260	ug/Kgdrywt	53	260	5.0
CHLOROBENZENE	<53	ug/Kgdrywt	53	53	1.0
ETHYLBENZENE	<260	ug/Kgdrywt	53	260	5.0
STYRENE	<53	ug/Kgdrywt	53	53	1.0
TOTAL XYLENES	<260	ug/Kgdrywt	53	260	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-10
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S007-1098-4.5/5.5	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	110	%	53		
TOLUENE-D8	114	%	53		
P-BROMOFLUOROBENZENE	111	%	53		
1,2-DICHLOROETHANE-D4	110	%	53		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-10
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S007-1098-4.5/5.5	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<260	ug/Kgdrywt	53	260	5
CHLOROMETHANE	<260	ug/Kgdrywt	53	260	5
VINYL CHLORIDE	<530	ug/Kgdrywt	53	530	10
BROMOMETHANE	<260	ug/Kgdrywt	53	260	5
CHLOROETHANE	<260	ug/Kgdrywt	53	260	5
TRICHLOROFLUOROMETHANE	<260	ug/Kgdrywt	53	260	5
1,1-DICHLOROETHENE	<260	ug/Kgdrywt	53	260	5
METHYLENE CHLORIDE	900 U	ug/Kgdrywt	53	260	5
1,2-DICHLOROETHENE (TRANS)	<260	ug/Kgdrywt	53	260	5
1,1-DICHLOROETHANE	<260	ug/Kgdrywt	53	260	5
1,2-DICHLOROETHENE (CIS)	<260	ug/Kgdrywt	53	260	5
2,2-DICHLOROPROPANE	<260	ug/Kgdrywt	53	260	5
CHLOROFORM	<260	ug/Kgdrywt	53	260	5
BROMOCHLOROMETHANE	<260	ug/Kgdrywt	53	260	5
1,1,1-TRICHLOROETHANE	<260	ug/Kgdrywt	53	260	5
1,2-DICHLOROETHANE	<260	ug/Kgdrywt	53	260	5
1,1-DICHLOROPROPENE	<260	ug/Kgdrywt	53	260	5
CARBON TETRACHLORIDE	<260	ug/Kgdrywt	53	260	5
BENZENE	<260	ug/Kgdrywt	53	260	5
1,2-DICHLOROPROPANE	<260	ug/Kgdrywt	53	260	5
TRICHLOROETHENE	<260	ug/Kgdrywt	53	260	5
DIBROMOMETHANE	<260	ug/Kgdrywt	53	260	5
BROMODICHLOROMETHANE	<260	ug/Kgdrywt	53	260	5
CIS-1,3-DICHLOROPROPENE	<260	ug/Kgdrywt	53	260	5
TOLUENE	<260	ug/Kgdrywt	53	260	5
TRANS-1,3-DICHLOROPROPENE	<260	ug/Kgdrywt	53	260	5
1,1,2-TRICHLOROETHANE	<260	ug/Kgdrywt	53	260	5
1,3-DICHLOROPROPANE	<260	ug/Kgdrywt	53	260	5
DIBROMOCHLOROMETHANE	<260	ug/Kgdrywt	53	260	5
TETRACHLOROETHENE	<260	ug/Kgdrywt	53	260	5
1,2-DIBROMOETHANE	<260	ug/Kgdrywt	53	260	5
CHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
1,1,1,2-TETRACHLOROETHANE	<260	ug/Kgdrywt	53	260	5

Report Notes: J

0000058

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-10
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S007-1098-4.5/5.5	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<260	ug/Kgdrywt	53	260	5
BROMOFORM	<260	ug/Kgdrywt	53	260	5
STYRENE	<260	ug/Kgdrywt	53	260	5
1,1,2,2-TETRACHLOROETHANE	<260	ug/Kgdrywt	53	260	5
1,2,3-TRICHLOROPROPANE	<260	ug/Kgdrywt	53	260	5
ISOPROPYLBENZENE	<260	ug/Kgdrywt	53	260	5
BROMOBENZENE	<260	ug/Kgdrywt	53	260	5
2-CHLOROTOLUENE	<260	ug/Kgdrywt	53	260	5
N-PROPYLBENZENE	<260	ug/Kgdrywt	53	260	5
4-CHLOROTOLUENE	<260	ug/Kgdrywt	53	260	5
1,3,5-TRIMETHYLBENZENE	<260	ug/Kgdrywt	53	260	5
TERT-BUTYLBENZENE	<260	ug/Kgdrywt	53	260	5
1,2,4-TRICHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
SEC-BUTYLBENZENE	<260	ug/Kgdrywt	53	260	5
1,3-DICHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
P-ISOPROPYLTOLUENE	<260	ug/Kgdrywt	53	260	5
1,4-DICHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
1,2-DICHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
N-BUTYLBENZENE	<260	ug/Kgdrywt	53	260	5
1,2-DIBROMO-3-CHLOROPROPAN	<260	ug/Kgdrywt	53	260	5
1,2,4-TRIMETHYLBENZENE	<260	ug/Kgdrywt	53	260	5
NAPHTHALENE	<260	ug/Kgdrywt	53	260	5
HEXACHLOROBUTADIENE	<260	ug/Kgdrywt	53	260	5
1,2,3-TRICHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
MTBE	<260	ug/Kgdrywt	53	260	5
ACETONE	530U ~~J300~~	ug/Kgdrywt	53	530	10
2-BUTANONE	<530	ug/Kgdrywt	53	530	10
4-METHYL-2-PENTANONE	<530	ug/Kgdrywt	53	530	10
2-HEXANONE	<530	ug/Kgdrywt	53	530	10
M+P-XYLENE	<260	ug/Kgdrywt	53	260	5
O-XYLENE	<260	ug/Kgdrywt	53	260	5
1,3,5-TRICHLOROBENZENE	<260	ug/Kgdrywt	53	260	5
VINYL ACETATE	<260	ug/Kgdrywt	53	260	5.0

Report Notes: J

0000059

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-10
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 92
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S007-1098-4.5/5.5	SL	10/12/98	10/16/98	10/20/98	KRT	5035	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<260	ug/Kgdrywt	53	260	5
DIETHYL ETHER	<260	ug/Kgdrywt	53	260	5
TETRAHYDROFURAN	<530	ug/Kgdrywt	53	530	10
DIBROMOFLUOROMETHANE	110	%	53		
1,2-DICHLOROETHANE-D4	110	%	53		
TOLUENE-D8	114	%	53		
P-BROMOFLUOROBENZENE	111	%	53		

Report Notes: J

0000059A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S005-1098-15/16

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 89.4 **Lab Sample ID:** WO3179-011

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	6.1			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-11
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S005-1098-15/16	Solid	CLIENT	10/13/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	89.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-11
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S005-1098-15/16	Solid	CLIENT	10/13/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	54.	mg/kgdrywt	1.1	2.5	SW8015M	10/23/98	JY	
4-Bromofluorobenzene	109.	%	1.1		SW8015M	10/23/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	95.	%	1.1		SW8015M	10/23/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-11
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S005-1098-15/16	SL	10/13/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<280	ug/Kgdrywt	140	280	2.0
BROMOMETHANE	<280	ug/Kgdrywt	140	280	2.0
VINYL CHLORIDE	<280	ug/Kgdrywt	140	280	2.0
CHLOROETHANE	<280	ug/Kgdrywt	140	280	2.0
METHYLENE CHLORIDE	1000 ul	ug/Kgdrywt	140	140	1.0
ACETONE	<700	ug/Kgdrywt	140	700	5
CARBON DISULFIDE	<140	ug/Kgdrywt	140	140	1.0
1,1-DICHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
1,1-DICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
TOTAL 1,2-DICHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
CHLOROFORM	<140	ug/Kgdrywt	140	140	1.0
1,2-DICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
2-BUTANONE	<700	ug/Kgdrywt	140	700	5
1,1,1-TRICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
CARBON TETRACHLORIDE	<140	ug/Kgdrywt	140	140	1.0
BROMODICHLOROMETHANE	<140	ug/Kgdrywt	140	140	1.0
1,2-DICHLOROPROPANE	<140	ug/Kgdrywt	140	140	1.0
CIS-1,3-DICHLOROPROPENE	<140	ug/Kgdrywt	140	140	1.0
TRICHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
DIBROMOCHLOROMETHANE	<140	ug/Kgdrywt	140	140	1.0
1,1,2-TRICHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
BENZENE	<700	ug/Kgdrywt	140	700	5.0
TRANS-1,3-DICHLOROPROPENE	<140	ug/Kgdrywt	140	140	1.0
BROMOFORM	<140	ug/Kgdrywt	140	140	1.0
4-METHYL-2-PENTANONE	<420	ug/Kgdrywt	140	420	3
2-HEXANONE	<560	ug/Kgdrywt	140	560	4
TETRACHLOROETHENE	<140	ug/Kgdrywt	140	140	1.0
1,1,2,2-TETRACHLOROETHANE	<140	ug/Kgdrywt	140	140	1.0
TOLUENE	<700	ug/Kgdrywt	140	700	5.0
CHLOROBENZENE	<140	ug/Kgdrywt	140	140	1.0
ETHYLBENZENE	<700	ug/Kgdrywt	140	700	5.0
STYRENE	<140	ug/Kgdrywt	140	140	1.0
TOTAL XYLENES	<700	ug/Kgdrywt	140	700	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-11
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S005-1098-15/16	SL	10/13/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	91	%	140		
TOLUENE-D8	102	%	140		
P-BROMOFLUOROBENZENE	96	%	140		
1,2-DICHLOROETHANE-D4	89	%	140		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-11
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S005-1098-15/16	SL	10/13/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<700	ug/Kgdrywt	140	700	5
CHLOROMETHANE	<700	ug/Kgdrywt	140	700	5
VINYL CHLORIDE	<1400	ug/Kgdrywt	140	1400	10
BROMOMETHANE	J610	ug/Kgdrywt	140	700	5
CHLOROETHANE	<700	ug/Kgdrywt	140	700	5
TRICHLOROFLUOROMETHANE	<700	ug/Kgdrywt	140	700	5
1,1-DICHLOROETHENE	<700	ug/Kgdrywt	140	700	5
METHYLENE CHLORIDE	1000	ug/Kgdrywt	140	700	5
1,2-DICHLOROETHENE (TRANS)	<700	ug/Kgdrywt	140	700	5
1,1-DICHLOROETHANE	<700	ug/Kgdrywt	140	700	5
1,2-DICHLOROETHENE (CIS)	<700	ug/Kgdrywt	140	700	5
2,2-DICHLOROPROPANE	<700	ug/Kgdrywt	140	700	5
CHLOROFORM	<700	ug/Kgdrywt	140	700	5
BROMOCHLOROMETHANE	<700	ug/Kgdrywt	140	700	5
1,1,1-TRICHLOROETHANE	<700	ug/Kgdrywt	140	700	5
1,2-DICHLOROETHANE	<700	ug/Kgdrywt	140	700	5
1,1-DICHLOROPROPENE	<700	ug/Kgdrywt	140	700	5
CARBON TETRACHLORIDE	<700	ug/Kgdrywt	140	700	5
BENZENE	<700	ug/Kgdrywt	140	700	5
1,2-DICHLOROPROPANE	<700	ug/Kgdrywt	140	700	5
TRICHLOROETHENE	<700	ug/Kgdrywt	140	700	5
DIBROMOMETHANE	<700	ug/Kgdrywt	140	700	5
BROMODICHLOROMETHANE	<700	ug/Kgdrywt	140	700	5
CIS-1,3-DICHLOROPROPENE	<700	ug/Kgdrywt	140	700	5
TOLUENE	<700	ug/Kgdrywt	140	700	5
TRANS-1,3-DICHLOROPROPENE	<700	ug/Kgdrywt	140	700	5
1,1,2-TRICHLOROETHANE	<700	ug/Kgdrywt	140	700	5
1,3-DICHLOROPROPANE	<700	ug/Kgdrywt	140	700	5
DIBROMOCHLOROMETHANE	<700	ug/Kgdrywt	140	700	5
TETRACHLOROETHENE	<700	ug/Kgdrywt	140	700	5
1,2-DIBROMOETHANE	<700	ug/Kgdrywt	140	700	5
CHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
1,1,1,2-TETRACHLOROETHANE	<700	ug/Kgdrywt	140	700	5

Report Notes: B, J, O-1

0000063

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-11
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S005-1098-15/16	SL	10/13/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<700	ug/Kgdrywt	140	700	5
BROMOFORM	<700	ug/Kgdrywt	140	700	5
STYRENE	<700	ug/Kgdrywt	140	700	5
1,1,2,2-TETRACHLOROETHANE	<700	ug/Kgdrywt	140	700	5
1,2,3-TRICHLOROPROPANE	<700	ug/Kgdrywt	140	700	5
ISOPROPYLBENZENE	J380	ug/Kgdrywt	140	700	5
BROMOBENZENE	<700	ug/Kgdrywt	140	700	5
2-CHLOROTOLUENE	<700	ug/Kgdrywt	140	700	5
N-PROPYLBENZENE	<700	ug/Kgdrywt	140	700	5
4-CHLOROTOLUENE	<700	ug/Kgdrywt	140	700	5
1,3,5-TRIMETHYLBENZENE	<700	ug/Kgdrywt	140	700	5
TERT-BUTYLBENZENE	<700	ug/Kgdrywt	140	700	5
1,2,4-TRICHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
SEC-BUTYLBENZENE	<700	ug/Kgdrywt	140	700	5
1,3-DICHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
P-ISOPROPYLTOLUENE	<700	ug/Kgdrywt	140	700	5
1,4-DICHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
1,2-DICHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
N-BUTYLBENZENE	<700	ug/Kgdrywt	140	700	5
1,2-DIBROMO-3-CHLOROPROPAN	<700	ug/Kgdrywt	140	700	5
1,2,4-TRIMETHYLBENZENE	<700	ug/Kgdrywt	140	700	5
NAPHTHALENE	<700	ug/Kgdrywt	140	700	5
HEXACHLOROBUTADIENE	<700	ug/Kgdrywt	140	700	5
1,2,3-TRICHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
MTBE	<700	ug/Kgdrywt	140	700	5
ACETONE	<1400	ug/Kgdrywt	140	1400	10
2-BUTANONE	<1400	ug/Kgdrywt	140	1400	10
4-METHYL-2-PENTANONE	<1400	ug/Kgdrywt	140	1400	10
2-HEXANONE	<1400	ug/Kgdrywt	140	1400	10
M+P-XYLENE	<700	ug/Kgdrywt	140	700	5
O-XYLENE	<700	ug/Kgdrywt	140	700	5
1,3,5 TRICHLOROBENZENE	<700	ug/Kgdrywt	140	700	5
VINYL ACETATE	<700	ug/Kgdrywt	140	700	5.0

Report Notes: B, J, O-1

0000064

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-11
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S005-1098-15/16	SL	10/13/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<700	ug/Kgdrywt	140	700	5
DIETHYL ETHER	<700	ug/Kgdrywt	140	700	5
TETRAHYDROFURAN	<1400	ug/Kgdrywt	140	1400	10
DIBROMOFLUOROMETHANE	91	%	140		
1,2-DICHLOROETHANE-D4	89	%	140		
TOLUENE-D8	102	%	140		
P-BROMOFLUOROBENZENE	96	%	140		

Report Notes: B, J, O-1

0000064A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S003-1098-12.5/14

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 88.7 **Lab Sample ID:** WO3179-012

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	15.7			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-12
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S003-1098-12.5/14	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	89.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-12
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S003-1098-12.5/14	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1,2,3
Gasoline Range Organics	270. J2	mg/kgdrywt	4.4	2.5	SW8015M	10/24/98	JY	
4-Bromofluorobenzene	MI236.	%	4.4		SW8015M	10/24/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	128.	%	4.4		SW8015M	10/24/98	JY	

* 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 10/22/98 by JEY
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(3) "MI" denotes surrogate recovery out of criteria due to matrix interference.

11/02/98

LJO/jcbjdy/lp(dw)/pdl

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<110	ug/Kgdrywt	57	110	2.0
BROMOMETHANE	<110	ug/Kgdrywt	57	110	2.0
VINYL CHLORIDE	<110	ug/Kgdrywt	57	110	2.0
CHLOROETHANE	<110	ug/Kgdrywt	57	110	2.0
METHYLENE CHLORIDE	1300 ul	ug/Kgdrywt	57	57	1.0
ACETONE	330 ul	ug/Kgdrywt	57	280	5
CARBON DISULFIDE	<57	ug/Kgdrywt	57	57	1.0
1,1-DICHLOROETHENE	<57	ug/Kgdrywt	57	57	1.0
1,1-DICHLOROETHANE	<57	ug/Kgdrywt	57	57	1.0
TOTAL 1,2-DICHLOROETHENE	<57	ug/Kgdrywt	57	57	1.0
CHLOROFORM	<57	ug/Kgdrywt	57	57	1.0
1,2-DICHLOROETHANE	<57	ug/Kgdrywt	57	57	1.0
2-BUTANONE	<280	ug/Kgdrywt	57	280	5
1,1,1-TRICHLOROETHANE	<57	ug/Kgdrywt	57	57	1.0
CARBON TETRACHLORIDE	<57	ug/Kgdrywt	57	57	1.0
BROMODICHLOROMETHANE	<57	ug/Kgdrywt	57	57	1.0
1,2-DICHLOROPROPANE	<57	ug/Kgdrywt	57	57	1.0
CIS-1,3-DICHLOROPROPENE	<57	ug/Kgdrywt	57	57	1.0
TRICHLOROETHENE	<57	ug/Kgdrywt	57	57	1.0
DIBROMOCHLOROMETHANE	<57	ug/Kgdrywt	57	57	1.0
1,1,2-TRICHLOROETHANE	<57	ug/Kgdrywt	57	57	1.0
BENZENE	<280	ug/Kgdrywt	57	280	5.0
TRANS-1,3-DICHLOROPROPENE	<57	ug/Kgdrywt	57	57	1.0
BROMOFORM	<57	ug/Kgdrywt	57	57	1.0
4-METHYL-2-PENTANONE	<170	ug/Kgdrywt	57	170	3
2-HEXANONE	<230	ug/Kgdrywt	57	230	4
TETRACHLOROETHENE	<57	ug/Kgdrywt	57	57	1.0
1,1,2,2-TETRACHLOROETHANE	<57	ug/Kgdrywt	57	57	1.0
TOLUENE	<280	ug/Kgdrywt	57	280	5.0
CHLOROBENZENE	<57	ug/Kgdrywt	57	57	1.0
ETHYLBENZENE	<280	ug/Kgdrywt	57	280	5.0
STYRENE	<57	ug/Kgdrywt	57	57	1.0
TOTAL XYLENES	<280	ug/Kgdrywt	57	280	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	96	%	57		
TOLUENE-D8	103	%	57		
P-BROMOFLUOROBENZENE	100	%	57		
1,2-DICHLOROETHANE-D4	95	%	57		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<280	ug/Kgdrywt	57	280	5
CHLOROMETHANE	<280	ug/Kgdrywt	57	280	5
VINYL CHLORIDE	<570	ug/Kgdrywt	57	570	10
BROMOMETHANE	<280	ug/Kgdrywt	57	280	5
CHLOROETHANE	<280	ug/Kgdrywt	57	280	5
TRICHLOROFLUOROMETHANE	<280	ug/Kgdrywt	57	280	5
1,1-DICHLOROETHENE	<280	ug/Kgdrywt	57	280	5
METHYLENE CHLORIDE	1300 U1	ug/Kgdrywt	57	280	5
1,2-DICHLOROETHENE (TRANS)	<280	ug/Kgdrywt	57	280	5
1,1-DICHLOROETHANE	<280	ug/Kgdrywt	57	280	5
1,2-DICHLOROETHENE (CIS)	<280	ug/Kgdrywt	57	280	5
2,2-DICHLOROPROPANE	<280	ug/Kgdrywt	57	280	5
CHLOROFORM	<280	ug/Kgdrywt	57	280	5
BROMOCHLOROMETHANE	<280	ug/Kgdrywt	57	280	5
1,1,1-TRICHLOROETHANE	<280	ug/Kgdrywt	57	280	5
1,2-DICHLOROETHANE	<280	ug/Kgdrywt	57	280	5
1,1-DICHLOROPROPENE	<280	ug/Kgdrywt	57	280	5
CARBON TETRACHLORIDE	<280	ug/Kgdrywt	57	280	5
BENZENE	<280	ug/Kgdrywt	57	280	5
1,2-DICHLOROPROPANE	<280	ug/Kgdrywt	57	280	5
TRICHLOROETHENE	<280	ug/Kgdrywt	57	280	5
DIBROMOMETHANE	<280	ug/Kgdrywt	57	280	5
BROMODICHLOROMETHANE	<280	ug/Kgdrywt	57	280	5
CIS-1,3-DICHLOROPROPENE	<280	ug/Kgdrywt	57	280	5
TOLUENE	<280	ug/Kgdrywt	57	280	5
TRANS-1,3-DICHLOROPROPENE	<280	ug/Kgdrywt	57	280	5
1,1,2-TRICHLOROETHANE	<280	ug/Kgdrywt	57	280	5
1,3-DICHLOROPROPANE	<280	ug/Kgdrywt	57	280	5
DIBROMOCHLOROMETHANE	<280	ug/Kgdrywt	57	280	5
TETRACHLOROETHENE	<280	ug/Kgdrywt	57	280	5
1,2-DIBROMOETHANE	<280	ug/Kgdrywt	57	280	5
CHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
1,1,1,2-TETRACHLOROETHANE	<280	ug/Kgdrywt	57	280	5

Report Notes: J

000068

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<280	ug/Kgdrywt	57	280	5
BROMOFORM	<280	ug/Kgdrywt	57	280	5
STYRENE	<280	ug/Kgdrywt	57	280	5
1,1,2,2-TETRACHLOROETHANE	<280	ug/Kgdrywt	57	280	5
1,2,3-TRICHLOROPROPANE	<280	ug/Kgdrywt	57	280	5
ISOPROPYLBENZENE	<280	ug/Kgdrywt	57	280	5
BROMOBENZENE	<280	ug/Kgdrywt	57	280	5
2-CHLOROTOLUENE	<280	ug/Kgdrywt	57	280	5
N-PROPYLBENZENE	<280	ug/Kgdrywt	57	280	5
4-CHLOROTOLUENE	<280	ug/Kgdrywt	57	280	5
1,3,5-TRIMETHYLBENZENE	<280	ug/Kgdrywt	57	280	5
TERT-BUTYLBENZENE	<280	ug/Kgdrywt	57	280	5
1,2,4-TRICHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
SEC-BUTYLBENZENE	<280	ug/Kgdrywt	57	280	5
1,3-DICHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
P-ISOPROPYLTOLUENE	<280	ug/Kgdrywt	57	280	5
1,4-DICHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
1,2-DICHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
N-BUTYLBENZENE	<280	ug/Kgdrywt	57	280	5
1,2-DIBROMO-3-CHLOROPROPAN	<280	ug/Kgdrywt	57	280	5
1,2,4-TRIMETHYLBENZENE	<280	ug/Kgdrywt	57	280	5
NAPHTHALENE	<280	ug/Kgdrywt	57	280	5
HEXACHLOROBUTADIENE	<280	ug/Kgdrywt	57	280	5
1,2,3-TRICHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
MTBE	<280	ug/Kgdrywt	57	280	5
ACETONE	570U' ~~J330~~	ug/Kgdrywt	57	570	10
2-BUTANONE	<570	ug/Kgdrywt	57	570	10
4-METHYL-2-PENTANONE	<570	ug/Kgdrywt	57	570	10
2-HEXANONE	<570	ug/Kgdrywt	57	570	10
M+P-XYLENE	<280	ug/Kgdrywt	57	280	5
O-XYLENE	<280	ug/Kgdrywt	57	280	5
1,3,5-TRICHLOROBENZENE	<280	ug/Kgdrywt	57	280	5
VINYL ACETATE	<280	ug/Kgdrywt	57	280	5.0

Report Notes: J

0000069

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<280	ug/Kgdrywt	57	280	5
DIETHYL ETHER	<280	ug/Kgdrywt	57	280	5
TETRAHYDROFURAN	<570	ug/Kgdrywt	57	570	10
DIBROMOFLUOROMETHANE	96	%	57		
1,2-DICHLOROETHANE-D4	95	%	57		
TOLUENE-D8	103	%	57		
P-BROMOFLUOROBENZENE	100	%	57		

Report Notes: J

0000069A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<360	ug/Kg	1.1	360	330
BIS(2-CHLOROETHYL)ETHER	<360	ug/Kg	1.1	360	330
2-CHLOROPHENOL	<360	ug/Kg	1.1	360	330
1,3-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
1,4-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
1,2-DICHLOROBENZENE	<360	ug/Kg	1.1	360	330
2-METHYLPHENOL	<360	ug/Kg	1.1	360	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<360	ug/Kg	1.1	360	330
4-METHYLPHENOL	<360	ug/Kg	1.1	360	330
N-NITROSO-DI-N-PROPYLAMINE	<360	ug/Kg	1.1	360	330
HEXACHLOROETHANE	<360	ug/Kg	1.1	360	330
NITROBENZENE	<360	ug/Kg	1.1	360	330
ISOPHORONE	<360	ug/Kg	1.1	360	330
2-NITROPHENOL	<360	ug/Kg	1.1	360	330
2,4-DIMETHYLPHENOL	<360	ug/Kg UJS	1.1	360	330
BIS(2-CHLOROETHOXY)METHANE	<360	ug/Kg	1.1	360	330
2,4-DICHLOROPHENOL	<360	ug/Kg	1.1	360	330
1,2,4-TRICHLOROBENZENE	<360	ug/Kg	1.1	360	330
NAPHTHALENE	<360	ug/Kg	1.1	360	330
4-CHLOROANILINE	<360	ug/Kg	1.1	360	330
HEXACHLOROBUTADIENE	<360	ug/Kg	1.1	360	330
4-CHLORO-3-METHYLPHENOL	<360	ug/Kg	1.1	360	330
2-METHYLNAPHTHALENE	<360	ug/Kg UJS	1.1	360	330
HEXACHLOROCYCLOPENTADIEN	<360	ug/Kg UJS	1.1	360	330
2,4,6-TRICHLOROPHENOL	<360	ug/Kg	1.1	360	330
2,4,5-TRICHLOROPHENOL	<900	ug/Kg	1.1	900	820
2-CHLORONAPHTHALENE	<360	ug/Kg	1.1	360	330
2-NITROANILINE	<900	ug/Kg	1.1	900	820
DIMETHYL PHTHALATE	<360	ug/Kg	1.1	360	330
ACENAPHTHYLENE	<360	ug/Kg	1.1	360	330
2,6-DINITROTOLUENE	<360	ug/Kg	1.1	360	330
3-NITROANILINE	<900	ug/Kg	1.1	900	820
ACENAPHTHENE	<360	ug/Kg	1.1	360	330

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<900	ug/Kg	1.1	900	820
4-NITROPHENOL	<900	ug/Kg	1.1	900	820
DIBENZOFURAN	<360	ug/Kg	1.1	360	330
2,4-DINITROTOLUENE	<360	ug/Kg	1.1	360	330
DIETHYLPHTHALATE	<360	ug/Kg	1.1	360	330
4-CHLOROPHENYL-PHENYLETHE	<360	ug/Kg	1.1	360	330
FLUORENE	<360	ug/Kg	1.1	360	330
4-NITROANILINE	<900	ug/Kg	1.1	900	820
4,6-DINITRO-2-METHYLPHENOL	<900	ug/Kg	1.1	900	820
N-NITROSODIPHENYLAMINE	<360	ug/Kg	1.1	360	330
4-BROMOPHENYL-PHENYLETHER	<360	ug/Kg	1.1	360	330
HEXACHLOROBENZENE	<360	ug/Kg	1.1	360	330
PENTACHLOROPHENOL	<900	ug/Kg	1.1	900	820
PHENANTHRENE	<360	ug/Kg	1.1	360	330
ANTHRACENE	<360	ug/Kg	1.1	360	330
CARBAZOLE	<360	ug/Kg	1.1	360	330
DI-N-BUTYLPHTHALATE	<360	ug/Kg	1.1	360	330
FLUORANTHENE	<360	ug/Kg	1.1	360	330
PYRENE	<360	ug/Kg	1.1	360	330
BUTYLBENZYLPHTHALATE	<360	ug/Kg	1.1	360	330
3,3'-DICHLOROBENZIDINE	<360	ug/Kg	1.1	360	330
BENZO[A]ANTHRACENE	<360	ug/Kg	1.1	360	330
CHRYSENE	<360	ug/Kg	1.1	360	330
BIS(2-ETHYLHEXYL)PHTHALATE	<360	ug/Kg	1.1	360	330
DI-N-OCTYLPHTHALATE	<360	ug/Kg	1.1	360	330
BENZO[B]FLUORANTHENE	<360	ug/Kg	1.1	360	330
BENZO[K]FLUORANTHENE	<360	ug/Kg	1.1	360	330
BENZO[A]PYRENE	<360	ug/Kg	1.1	360	330
INDENO[1,2,3-CD]PYRENE	<360	ug/Kg	1.1	360	330
DIBENZ[A,H]ANTHRACENE	<360	ug/Kg	1.1	360	330
BENZO[G,H,I]PERYLENE	<360	ug/Kg	1.1	360	330
2-FLUOROPHENOL	46	%	1.1		
PHENOL-D5	45	%	1.1		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-12
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 89
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S003-1098-12.5/14	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	42	%	1.1		
2-FLUOROBIPHENYL	53	%	1.1		
2,4,6-TRIBROMOPHENOL	62	%	1.1		
TERPHENYL-D14	53	%	1.1		

Report Notes:

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-21
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TB-1	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1
Gasoline Range Organics	<2.5	mg/kgdrywt	1.0	2.5	SW8015M	10/23/98	JY	
4-Bromofluorobenzene	91.	%	1.0		SW8015M	10/23/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	92.	%	1.0		SW8015M	10/23/98	JY	

* 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 10/22/98 by JEY

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-21
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: -
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<100	ug/Kgdrywt	50	100	2.0
BROMOMETHANE	<100	ug/Kgdrywt	50	100	2.0
VINYL CHLORIDE	<100	ug/Kgdrywt	50	100	2.0
CHLOROETHANE	<100	ug/Kgdrywt	50	100	2.0
METHYLENE CHLORIDE	1500 U	ug/Kgdrywt	50	50	1.0
ACETONE	380 U	ug/Kgdrywt	50	250	5
CARBON DISULFIDE	<50	ug/Kgdrywt	50	50	1.0
1,1-DICHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
1,1-DICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
TOTAL 1,2-DICHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
CHLOROFORM	<50	ug/Kgdrywt	50	50	1.0
1,2-DICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
2-BUTANONE	<250	ug/Kgdrywt	50	250	5
1,1,1-TRICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
CARBON TETRACHLORIDE	<50	ug/Kgdrywt	50	50	1.0
BROMODICHLOROMETHANE	<50	ug/Kgdrywt	50	50	1.0
1,2-DICHLOROPROPANE	<50	ug/Kgdrywt	50	50	1.0
CIS-1,3-DICHLOROPROPENE	<50	ug/Kgdrywt	50	50	1.0
TRICHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
DIBROMOCHLOROMETHANE	<50	ug/Kgdrywt	50	50	1.0
1,1,2-TRICHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
BENZENE	<250	ug/Kgdrywt	50	250	5.0
TRANS-1,3-DICHLOROPROPENE	<50	ug/Kgdrywt	50	50	1.0
BROMOFORM	<50	ug/Kgdrywt	50	50	1.0
4-METHYL-2-PENTANONE	<150	ug/Kgdrywt	50	150	3
2-HEXANONE	<200	ug/Kgdrywt	50	200	4
TETRACHLOROETHENE	<50	ug/Kgdrywt	50	50	1.0
1,1,2,2-TETRACHLOROETHANE	<50	ug/Kgdrywt	50	50	1.0
TOLUENE	<250	ug/Kgdrywt	50	250	5.0
CHLOROBENZENE	<50	ug/Kgdrywt	50	50	1.0
ETHYLBENZENE	<250	ug/Kgdrywt	50	250	5.0
STYRENE	<50	ug/Kgdrywt	50	50	1.0
TOTAL XYLENES	<250	ug/Kgdrywt	50	250	5.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-21
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: -
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	106	%	50		
TOLUENE-D8	96	%	50		
P-BROMOFLUOROBENZENE	98	%	50		
1,2-DICHLOROETHANE-D4	109	%	50		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: *Mr. Vincent DelloRusso*
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-21
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: -
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
VINYL CHLORIDE	<500	ug/Kgdrywt	50	500	10
BROMOMETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROETHANE	<250	ug/Kgdrywt	50	250	5
TRICHLOROFLUOROMETHANE	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROETHENE	<250	ug/Kgdrywt	50	250	5
METHYLENE CHLORIDE	B1500	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHENE (TRANS)	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHENE (CIS)	<250	ug/Kgdrywt	50	250	5
2,2-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
CHLOROFORM	<250	ug/Kgdrywt	50	250	5
BROMOCHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
1,1,1-TRICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,1-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
CARBON TETRACHLORIDE	<250	ug/Kgdrywt	50	250	5
BENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
TRICHLOROETHENE	<250	ug/Kgdrywt	50	250	5
DIBROMOMETHANE	<250	ug/Kgdrywt	50	250	5
BROMODICHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
CIS-1,3-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
TOLUENE	<250	ug/Kgdrywt	50	250	5
TRANS-1,3-DICHLOROPROPENE	<250	ug/Kgdrywt	50	250	5
1,1,2-TRICHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,3-DICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
DIBROMOCHLOROMETHANE	<250	ug/Kgdrywt	50	250	5
TETRACHLOROETHENE	<250	ug/Kgdrywt	50	250	5
1,2-DIBROMOETHANE	<250	ug/Kgdrywt	50	250	5
CHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
1,1,1,2-TETRACHLOROETHANE	<250	ug/Kgdrywt	50	250	5

Report Notes: B, J

0000074

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-21
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: -
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
BROMOFORM	<250	ug/Kgdrywt	50	250	5
STYRENE	<250	ug/Kgdrywt	50	250	5
1,1,2,2-TETRACHLOROETHANE	<250	ug/Kgdrywt	50	250	5
1,2,3-TRICHLOROPROPANE	<250	ug/Kgdrywt	50	250	5
ISOPROPYLBENZENE	<250	ug/Kgdrywt	50	250	5
BROMOBENZENE	<250	ug/Kgdrywt	50	250	5
2-CHLOROTOLUENE	<250	ug/Kgdrywt	50	250	5
N-PROPYLBENZENE	<250	ug/Kgdrywt	50	250	5
4-CHLOROTOLUENE	<250	ug/Kgdrywt	50	250	5
1,3,5-TRIMETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
TERT-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,2,4-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
SEC-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,3-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
P-ISOPROPYLTOLUENE	<250	ug/Kgdrywt	50	250	5
1,4-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
N-BUTYLBENZENE	<250	ug/Kgdrywt	50	250	5
1,2-DIBROMO-3-CHLOROPROPAN	<250	ug/Kgdrywt	50	250	5
1,2,4-TRIMETHYLBENZENE	<250	ug/Kgdrywt	50	250	5
NAPHTHALENE	<250	ug/Kgdrywt	50	250	5
HEXACHLOROBUTADIENE	<250	ug/Kgdrywt	50	250	5
1,2,3-TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
MTBE	<250	ug/Kgdrywt	50	250	5
ACETONE	J380	ug/Kgdrywt	50	500	10
2-BUTANONE	<500	ug/Kgdrywt	50	500	10
4-METHYL-2-PENTANONE	<500	ug/Kgdrywt	50	500	10
2-HEXANONE	<500	ug/Kgdrywt	50	500	10
M+P-XYLENE	<250	ug/Kgdrywt	50	250	5
O-XYLENE	<250	ug/Kgdrywt	50	250	5
1,3,5 TRICHLOROBENZENE	<250	ug/Kgdrywt	50	250	5
VINYL ACETATE	<250	ug/Kgdrywt	50	250	5.0

Report Notes: B, J

0000075

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-21
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: -
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-1	SL	10/12/98	10/16/98	10/24/98	JSS	5035	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<250	ug/Kgdrywt	50	250	5
DIETHYL ETHER	<250	ug/Kgdrywt	50	250	5
TETRAHYDROFURAN	<500	ug/Kgdrywt	50	500	10
DIBROMOFLUOROMETHANE	106	%	50		
1,2-DICHLOROETHANE-D4	109	%	50		
TOLUENE-D8	96	%	50		
P-BROMOFLUOROBENZENE	98	%	50		

Report Notes: B, J

00000075A

APPENDIX C-3

MICROWELL GROUNDWATER SAMPLE ANALYTICAL DATA

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H001-1098

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-022

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	336		~~J~~ J4	P	1

~~J4~~ lab dup % RPD >20 (24.5)

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	~~J1~~	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	~~J2~~ U'	ug/L	1.0	1.0	1.0
ACETONE	~~8~~ U'	ug/L	1.0	5	5
CARBON DISULFIDE	J0.8	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	J0.6	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	7 J2	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	390* ~~E550~~	ug/L	~~10~~ 20	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	1700* ~~E1900~~	ug/L	~~10~~ 20	1.0	1.0

Report Notes: B, J, E, #

* Result Reported From 1:20 Diluted Sample

J2 - Estimate pos result due to one surrogate above QC limits

0000077

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	78	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	#413	%	1.0		

Report Notes: B, J, E, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	7 J-2	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J, E, #

0000077

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

DIFF VOC LIST

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	340 ~~E650~~	ug/L	~~1.0~~ 20	~~5~~ 100	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	650 ~~E1300~~	ug/L	~~1.0~~ 20	~~5~~ 100	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	140	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	310 ~~E660~~	ug/L	~~1.0~~ 20	~~5~~ 100	5
TERT-BUTYLBENZENE	10	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	6	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	20	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	610 ~~E1200~~	ug/L	~~1.0~~ 20	~~5~~ 100	5
NAPHTHALENE	8	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	~~J6~~ 100	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	1700 ~~E1900~~	ug/L	~~1.0~~ 20	~~5~~ 100	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, E, #

0000078

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	78	%	1.0		
1,2-DICHLOROETHANE-D4	#413	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		

only one surrogate above QC limits, ~~out, no action~~ estimate pos benzene result

Report Notes: J, E, #

0000078A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	390	ug/L	20	100	5
BROMOFORM	<100	ug/L	20	100	5
STYRENE	<100	ug/L	20	100	5
1,1,2,2-TETRACHLOROETHANE	<100	ug/L	20	100	5
1,2,3-TRICHLOROPROPANE	<100	ug/L	20	100	5
ISOPROPYLBENZENE	650	ug/L	20	100	5
BROMOBENZENE	<100	ug/L	20	100	5
2-CHLOROTOLUENE	<100	ug/L	20	100	5
N-PROPYLBENZENE	J58	ug/L	20	100	5
4-CHLOROTOLUENE	<100	ug/L	20	100	5
1,3,5-TRIMETHYLBENZENE	310	ug/L	20	100	5
TERT-BUTYLBENZENE	<100	ug/L	20	100	5
1,2,4-TRICHLOROBENZENE	<100	ug/L	20	100	5
SEC-BUTYLBENZENE	<100	ug/L	20	100	5
1,3-DICHLOROBENZENE	<100	ug/L	20	100	5
P-ISOPROPYLTOLUENE	<100	ug/L	20	100	5
1,4-DICHLOROBENZENE	<100	ug/L	20	100	5
1,2-DICHLOROBENZENE	<100	ug/L	20	100	5
N-BUTYLBENZENE	<100	ug/L	20	100	5
1,2-DIBROMO-3-CHLOROPROPAN	<100	ug/L	20	100	5
1,2,4-TRIMETHYLBENZENE	610	ug/L	20	100	5
NAPHTHALENE	<100	ug/L	20	100	5
HEXACHLOROBUTADIENE	<100	ug/L	20	100	5
1,2,3-TRICHLOROBENZENE	<100	ug/L	20	100	5
MTBE	<100	ug/L	20	100	5
ACETONE	<200	ug/L	20	200	10
2-BUTANONE	<200	ug/L	20	200	10
4-METHYL-2-PENTANONE	<200	ug/L	20	200	10
2-HEXANONE	<200	ug/L	20	200	10
M+P-XYLENE	1700	ug/L	20	100	5
O-XYLENE	<100	ug/L	20	100	5
1,3,5-TRICHLOROBENZENE	<100	ug/L	20	100	5
VINYL ACETATE	<100	ug/L	20	100	5.0

Report Notes: J, O-2

0000080

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	390	ug/L	20	20	1
M+P-XYLENE	1700	ug/L	20	20	1
BROMOFORM	<20	ug/L	20	20	1
O-XYLENE	<20	ug/L	20	20	1
STYRENE	<20	ug/L	20	20	1
1,1,2,2-TETRACHLOROETHANE	<20	ug/L	20	20	1
1,2,3-TRICHLOROPROPANE	<20	ug/L	20	20	1
ISOPROPYLBENZENE	650	ug/L	20	20	1
BROMOBENZENE	<20	ug/L	20	20	1
2-CHLOROTOLUENE	<20	ug/L	20	20	1
N-PROPYLBENZENE	58	ug/L	20	20	1
4-CHLOROTOLUENE	<20	ug/L	20	20	1
1,3,5-TRIMETHYLBENZENE	310	ug/L	20	20	1
TERT-BUTYLBENZENE	<20	ug/L	20	20	1
1,2,4-TRIMETHYLBENZENE	610	ug/L	20	20	1
SEC-BUTYLBENZENE	<20	ug/L	20	20	1
1,3-DICHLOROBENZENE	<20	ug/L	20	20	1
P-ISOPROPYLTOLUENE	<20	ug/L	20	20	1
1,4-DICHLOROBENZENE	<20	ug/L	20	20	1
1,2-DICHLOROBENZENE	<20	ug/L	20	20	1
N-BUTYLBENZENE	<20	ug/L	20	20	1
1,2-DIBROMO-3-CHLOROPROPAN	<20	ug/L	20	20	1
1,2,4-TRICHLOROBENZENE	<20	ug/L	20	20	1
NAPHTHALENE	<20	ug/L	20	20	1
HEXACHLOROBUTADIENE	<20	ug/L	20	20	1
1,2,3-TRICHLOROBENZENE	<20	ug/L	20	20	1
ACETONE	J58	ug/L	20	100	5
2-BUTANONE	<100	ug/L	20	100	5
4-METHYL-2-PENTANONE	<60	ug/L	20	60	3
2-HEXANONE	<80	ug/L	20	80	4
TETRAHYDROFURAN	<20	ug/L	20	20	1
MTBE	<20	ug/L	20	20	1
VINYL ACETATE	<20	ug/L	20	20	1

Report Notes: J, O-2 YB 12/18/98

00000 80

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<100	ug/L	20	100	5
DIETHYL ETHER	<100	ug/L	20	100	5
TETRAHYDROFURAN	<200	ug/L	20	200	10
DIBROMOFLUOROMETHANE	89	%	20		
1,2-DICHLOROETHANE-D4	93	%	20		
TOLUENE-D8	103	%	20		
P-BROMOFLUOROBENZENE	107	%	20		

Report Notes: J, O-2

00000080A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	89	%	20		
TOLUENE-D8	103	%	20		
P-BROMOFLUOROBENZENE	107	%	20		
1,2-DICHLOROETHANE-D4	93	%	20		

Report Notes: J, O-2 JCB 12/18/98

000080A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<40	ug/L	20	40	2.0
BROMOMETHANE	<40	ug/L	20	40	2.0
VINYL CHLORIDE	<40	ug/L	20	40	2.0
CHLOROETHANE	<40	ug/L	20	40	2.0
METHYLENE CHLORIDE	JB15	ug/L	20	20	1.0
ACETONE	JB58	ug/L	20	100	5
CARBON DISULFIDE	<20	ug/L	20	20	1.0
1,1-DICHLOROETHENE	<20	ug/L	20	20	1.0
1,1-DICHLOROETHANE	<20	ug/L	20	20	1.0
TOTAL 1,2-DICHLOROETHENE	<20	ug/L	20	20	1.0
CHLOROFORM	<20	ug/L	20	20	1.0
1,2-DICHLOROETHANE	<20	ug/L	20	20	1.0
2-BUTANONE	<100	ug/L	20	100	5
1,1,1-TRICHLOROETHANE	<20	ug/L	20	20	1.0
CARBON TETRACHLORIDE	<20	ug/L	20	20	1.0
BROMODICHLOROMETHANE	<20	ug/L	20	20	1.0
1,2-DICHLOROPROPANE	<20	ug/L	20	20	1.0
CIS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
TRICHLOROETHENE	<20	ug/L	20	20	1.0
DIBROMOCHLOROMETHANE	<20	ug/L	20	20	1.0
1,1,2-TRICHLOROETHANE	<20	ug/L	20	20	1.0
BENZENE	<20	ug/L	20	20	1.0
TRANS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
BROMOFORM	<20	ug/L	20	20	1.0
4-METHYL-2-PENTANONE	<60	ug/L	20	60	3
2-HEXANONE	<80	ug/L	20	80	4
TETRACHLOROETHENE	<20	ug/L	20	20	1.0
1,1,2,2-TETRACHLOROETHANE	<20	ug/L	20	20	1.0
TOLUENE	<20	ug/L	20	20	1.0
CHLOROBENZENE	<20	ug/L	20	20	1.0
ETHYLBENZENE	390	ug/L	20	20	1.0
STYRENE	<20	ug/L	20	20	1.0
TOTAL XYLENES	1700	ug/L	20	20	1.0

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	89	%	20		
TOLUENE-D8	103	%	20		
P-BROMOFLUOROBENZENE	107	%	20		
1,2-DICHLOROETHANE-D4	93	%	20		

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	7 J2	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: E, # JCB 12/16/98

0000077

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	~~E550~~ 390	ug/L	1.0	1	1
M+P-XYLENE	~~E1900~~ 1700	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	E1300	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	140	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	E680	ug/L	1.0	1	1
TERT-BUTYLBENZENE	10	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	E1200	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	6	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	20	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	8	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	8	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: E, # JCB 12/18/98

0000078

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	78	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		
1,2-DICHLOROETHANE-D4	# 413	%	1.0		

Report Notes: E, # JCB 12/18/98

0000078A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<100	ug/L	20	100	5
CHLOROMETHANE	<100	ug/L	20	100	5
VINYL CHLORIDE	<40	ug/L	20	40	2
BROMOMETHANE	<100	ug/L	20	100	5
CHLOROETHANE	<100	ug/L	20	100	5
TRICHLOROFLUOROMETHANE	<100	ug/L	20	100	5
1,1-DICHLOROETHENE	<100	ug/L	20	100	5
METHYLENE CHLORIDE	<100	ug/L	20	100	5
1,2-DICHLOROETHENE (TRANS)	<100	ug/L	20	100	5
1,1-DICHLOROETHANE	<100	ug/L	20	100	5
1,2-DICHLOROETHENE (CIS)	<100	ug/L	20	100	5
2,2-DICHLOROPROPANE	<100	ug/L	20	100	5
CHLOROFORM	<100	ug/L	20	100	5
BROMOCHLOROMETHANE	<100	ug/L	20	100	5
1,1,1-TRICHLOROETHANE	<100	ug/L	20	100	5
1,2-DICHLOROETHANE	<100	ug/L	20	100	5
1,1-DICHLOROPROPENE	<100	ug/L	20	100	5
CARBON TETRACHLORIDE	<100	ug/L	20	100	5
BENZENE	<100	ug/L	20	100	5
1,2-DICHLOROPROPANE	<100	ug/L	20	100	5
TRICHLOROETHENE	<100	ug/L	20	100	5
DIBROMOMETHANE	<100	ug/L	20	100	5
BROMODICHLOROMETHANE	<100	ug/L	20	100	5
CIS-1,3-DICHLOROPROPENE	<100	ug/L	20	100	5
TOLUENE	<100	ug/L	20	100	5
TRANS-1,3-DICHLOROPROPENE	<100	ug/L	20	100	5
1,1,2-TRICHLOROETHANE	<100	ug/L	20	100	5
1,3-DICHLOROPROPANE	<100	ug/L	20	100	5
DIBROMOCHLOROMETHANE	<100	ug/L	20	100	5
TETRACHLOROETHENE	<100	ug/L	20	100	5
1,2-DIBROMOETHANE	<100	ug/L	20	100	5
CHLOROBENZENE	<100	ug/L	20	100	5
1,1,1,2-TETRACHLOROETHANE	<100	ug/L	20	100	5

Report Notes: J, O-2

0000079

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-22DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H001-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<40	ug/L	20	40	2
CHLOROMETHANE	<40	ug/L	20	40	2
VINYL CHLORIDE	<40	ug/L	20	40	2
BROMOMETHANE	<40	ug/L	20	40	2
CHLOROETHANE	<40	ug/L	20	40	2
TRICHLOROFLUOROMETHANE	<40	ug/L	20	40	2
1,1-DICHLOROETHENE	<20	ug/L	20	20	1
METHYLENE CHLORIDE	<20	ug/L	20	20	1
1,2-DICHLOROETHENE (TRANS)	<20	ug/L	20	20	1
1,1-DICHLOROETHANE	<20	ug/L	20	20	1
1,2-DICHLOROETHENE (CIS)	<20	ug/L	20	20	1
2,2-DICHLOROPROPANE	<20	ug/L	20	20	1
BROMOCHLOROMETHANE	<20	ug/L	20	20	1
CHLOROFORM	<20	ug/L	20	20	1
1,1,1-TRICHLOROETHANE	<20	ug/L	20	20	1
1,2-DICHLOROETHANE	<20	ug/L	20	20	1
1,1-DICHLOROPROPENE	<20	ug/L	20	20	1
CARBON TETRACHLORIDE	<20	ug/L	20	20	1
BENZENE	<20	ug/L	20	20	1
1,2-DICHLOROPROPANE	<20	ug/L	20	20	1
TRICHLOROETHENE	<20	ug/L	20	20	1
CIS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1
DIBROMOMETHANE	<20	ug/L	20	20	1
BROMODICHLOROMETHANE	<20	ug/L	20	20	1
TOLUENE	<20	ug/L	20	20	1
TRANS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1
1,1,2-TRICHLOROETHANE	<20	ug/L	20	20	1
1,3-DICHLOROPROPANE	<20	ug/L	20	20	1
DIBROMOCHLOROMETHANE	<20	ug/L	20	20	1
TETRACHLOROETHENE	<20	ug/L	20	20	1
1,2-DIBROMOETHANE	<20	ug/L	20	20	1
CHLOROBENZENE	<20	ug/L	20	20	1
1,1,1,2-TETRACHLOROETHANE	<20	ug/L	20	20	1

Report Notes: J, O-2 JCB 12/18/98

0000079

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H101-1098

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-023

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	416			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	~~B2~~ U	ug/L	1.0	1.0	1.0
ACETONE	7 U	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	4 J2	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	370 ~~E450~~ *	ug/L	~~1.0~~ 10	~~1.0~~ 10	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	1600 ~~E1600~~ *	ug/L	~~1.0~~ 10	~~1.0~~ 10	1.0

Report Notes: B, E, #

0000082

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	82	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	#270	%	1.0		

only one surrogate above QC limits
~~OC~~ ~~action~~ estimate pos Benzene result

Report Notes: B, E, #

0000083

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<20	ug/L	10	20	2.0
BROMOMETHANE	<20	ug/L	10	20	2.0
VINYL CHLORIDE	<20	ug/L	10	20	2.0
CHLOROETHANE	<20	ug/L	10	20	2.0
METHYLENE CHLORIDE	JB8	ug/L	10	10	1.0
ACETONE	JB32	ug/L	10	50	5
CARBON DISULFIDE	<10	ug/L	10	10	1.0
1,1-DICHLOROETHENE	<10	ug/L	10	10	1.0
1,1-DICHLOROETHANE	<10	ug/L	10	10	1.0
TOTAL 1,2-DICHLOROETHENE	<10	ug/L	10	10	1.0
CHLOROFORM	<10	ug/L	10	10	1.0
1,2-DICHLOROETHANE	<10	ug/L	10	10	1.0
2-BUTANONE	<50	ug/L	10	50	5
1,1,1-TRICHLOROETHANE	<10	ug/L	10	10	1.0
CARBON TETRACHLORIDE	<10	ug/L	10	10	1.0
BROMODICHLOROMETHANE	<10	ug/L	10	10	1.0
1,2-DICHLOROPROPANE	<10	ug/L	10	10	1.0
CIS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1.0
TRICHLOROETHENE	<10	ug/L	10	10	1.0
DIBROMOCHLOROMETHANE	<10	ug/L	10	10	1.0
1,1,2-TRICHLOROETHANE	<10	ug/L	10	10	1.0
BENZENE	<10	ug/L	10	10	1.0
TRANS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1.0
BROMOFORM	<10	ug/L	10	10	1.0
4-METHYL-2-PENTANONE	<30	ug/L	10	30	3
2-HEXANONE	<40	ug/L	10	40	4
TETRACHLOROETHENE	<10	ug/L	10	10	1.0
1,1,2,2-TETRACHLOROETHANE	<10	ug/L	10	10	1.0
TOLUENE	<10	ug/L	10	10	1.0
CHLOROBENZENE	<10	ug/L	10	10	1.0
ETHYLBENZENE	370	ug/L	10	10	1.0
STYRENE	<10	ug/L	10	10	1.0
TOTAL XYLENES	1600	ug/L	10	10	1.0

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	92	%	10		
TOLUENE-D8	102	%	10		
P-BROMOFLUOROBENZENE	106	%	10		
1,2-DICHLOROETHANE-D4	90	%	10		

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Long List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	J4	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J, E, #

0000082

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	370 ~~E450~~	ug/L	1.0 ~~10~~	~~5~~ 50	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	570 ~~E900~~	ug/L	~~1.0~~ 10	~~5~~ 50	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	94 J2	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	260 ~~E460~~	ug/L	~~1.0~~ 10	~~5~~ 50	5
TERT-BUTYLBENZENE	6 J2	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	10 J2	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	J3	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	520 ~~E840~~	ug/L	~~1.0~~ 10	~~5~~ 50	5
NAPHTHALENE	8 J2	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	~~J7~~ 100	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	1600 ~~E1600~~	ug/L	~~1.0~~ 10	~~5~~ 50	5
O-XYLENE	9 J2	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, E, #

0000083

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	82	%	1.0		
1,2-DICHLOROETHANE-D4	#270	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		

J2 - One surrogate ~~out of control~~ above QC limits. estimate all positive results

Report Notes: J, E, #

0000083A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<50	ug/L	10	50	5
CHLOROMETHANE	<50	ug/L	10	50	5
VINYL CHLORIDE	<20	ug/L	10	20	2
BROMOMETHANE	<50	ug/L	10	50	5
CHLOROETHANE	<50	ug/L	10	50	5
TRICHLOROFLUOROMETHANE	<50	ug/L	10	50	5
1,1-DICHLOROETHENE	<50	ug/L	10	50	5
METHYLENE CHLORIDE	<50	ug/L	10	50	5
1,2-DICHLOROETHENE (TRANS)	<50	ug/L	10	50	5
1,1-DICHLOROETHANE	<50	ug/L	10	50	5
1,2-DICHLOROETHENE (CIS)	<50	ug/L	10	50	5
2,2-DICHLOROPROPANE	<50	ug/L	10	50	5
CHLOROFORM	<50	ug/L	10	50	5
BROMOCHLOROMETHANE	<50	ug/L	10	50	5
1,1,1-TRICHLOROETHANE	<50	ug/L	10	50	5
1,2-DICHLOROETHANE	<50	ug/L	10	50	5
1,1-DICHLOROPROPENE	<50	ug/L	10	50	5
CARBON TETRACHLORIDE	<50	ug/L	10	50	5
BENZENE	<50	ug/L	10	50	5
1,2-DICHLOROPROPANE	<50	ug/L	10	50	5
TRICHLOROETHENE	<50	ug/L	10	50	5
DIBROMOMETHANE	<50	ug/L	10	50	5
BROMODICHLOROMETHANE	<50	ug/L	10	50	5
CIS-1,3-DICHLOROPROPENE	<50	ug/L	10	50	5
TOLUENE	<50	ug/L	10	50	5
TRANS-1,3-DICHLOROPROPENE	<50	ug/L	10	50	5
1,1,2-TRICHLOROETHANE	<50	ug/L	10	50	5
1,3-DICHLOROPROPANE	<50	ug/L	10	50	5
DIBROMOCHLOROMETHANE	<50	ug/L	10	50	5
TETRACHLOROETHENE	<50	ug/L	10	50	5
1,2-DIBROMOETHANE	<50	ug/L	10	50	5
CHLOROBENZENE	<50	ug/L	10	50	5
1,1,1,2-TETRACHLOROETHANE	<50	ug/L	10	50	5

Report Notes: J, O-2

000084

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	370	ug/L	10	50	5
BROMOFORM	<50	ug/L	10	50	5
STYRENE	<50	ug/L	10	50	5
1,1,2,2-TETRACHLOROETHANE	<50	ug/L	10	50	5
1,2,3-TRICHLOROPROPANE	<50	ug/L	10	50	5
ISOPROPYLBENZENE	570	ug/L	10	50	5
BROMOBENZENE	<50	ug/L	10	50	5
2-CHLOROTOLUENE	<50	ug/L	10	50	5
N-PROPYLBENZENE	J46	ug/L	10	50	5
4-CHLOROTOLUENE	<50	ug/L	10	50	5
1,3,5-TRIMETHYLBENZENE	260	ug/L	10	50	5
TERT-BUTYLBENZENE	<50	ug/L	10	50	5
1,2,4-TRICHLOROBENZENE	<50	ug/L	10	50	5
SEC-BUTYLBENZENE	<50	ug/L	10	50	5
1,3-DICHLOROBENZENE	<50	ug/L	10	50	5
P-ISOPROPYLTOLUENE	<50	ug/L	10	50	5
1,4-DICHLOROBENZENE	<50	ug/L	10	50	5
1,2-DICHLOROBENZENE	<50	ug/L	10	50	5
N-BUTYLBENZENE	<50	ug/L	10	50	5
1,2-DIBROMO-3-CHLOROPROPAN	<50	ug/L	10	50	5
1,2,4-TRIMETHYLBENZENE	520	ug/L	10	50	5
NAPHTHALENE	<50	ug/L	10	50	5
HEXACHLOROBUTADIENE	<50	ug/L	10	50	5
1,2,3-TRICHLOROBENZENE	<50	ug/L	10	50	5
MTBE	<50	ug/L	10	50	5
ACETONE	<100	ug/L	10	100	10
2-BUTANONE	<100	ug/L	10	100	10
4-METHYL-2-PENTANONE	<100	ug/L	10	100	10
2-HEXANONE	<100	ug/L	10	100	10
M+P-XYLENE	1600	ug/L	10	50	5
O-XYLENE	<50	ug/L	10	50	5
1,3,5-TRICHLOROBENZENE	<50	ug/L	10	50	5
VINYL ACETATE	<50	ug/L	10	50	5.0

Report Notes: J, O-2

0000085

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<50	ug/L	10	50	5
DIETHYL ETHER	<50	ug/L	10	50	5
TETRAHYDROFURAN	<100	ug/L	10	100	10
DIBROMOFLUOROMETHANE	92	%	10		
1,2-DICHLOROETHANE-D4	90	%	10		
TOLUENE-D8	102	%	10		
P-BROMOFLUOROBENZENE	106	%	10		

Report Notes: J, O-2

00000854

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	4	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: E, # JCB 12/18/98

000082

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	E450	ug/L	1.0	1	1
M+P-XYLENE	E1600	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	9	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	E900	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	94	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	E460	ug/L	1.0	1	1
TERT-BUTYLBENZENE	6	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	E840	ug/L	1.0	1	1
SEC-BUTYLBENZENE	10	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	3	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	8	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	7	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: E, # JCB 12/18/98

00000 83

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	82	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		
1,2-DICHLOROETHANE-D4	#270	%	1.0		

Report Notes: E, # JCB 12/18/98

00000 83A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<20	ug/L	10	20	2
CHLOROMETHANE	<20	ug/L	10	20	2
VINYL CHLORIDE	<20	ug/L	10	20	2
BROMOMETHANE	<20	ug/L	10	20	2
CHLOROETHANE	<20	ug/L	10	20	2
TRICHLOROFLUOROMETHANE	<20	ug/L	10	20	2
1,1-DICHLOROETHENE	<10	ug/L	10	10	1
METHYLENE CHLORIDE	<10	ug/L	10	10	1
1,2-DICHLOROETHENE (TRANS)	<10	ug/L	10	10	1
1,1-DICHLOROETHANE	<10	ug/L	10	10	1
1,2-DICHLOROETHENE (CIS)	<10	ug/L	10	10	1
2,2-DICHLOROPROPANE	<10	ug/L	10	10	1
BROMOCHLOROMETHANE	<10	ug/L	10	10	1
CHLOROFORM	<10	ug/L	10	10	1
1,1,1-TRICHLOROETHANE	<10	ug/L	10	10	1
1,2-DICHLOROETHANE	<10	ug/L	10	10	1
1,1-DICHLOROPROPENE	<10	ug/L	10	10	1
CARBON TETRACHLORIDE	<10	ug/L	10	10	1
BENZENE	<10	ug/L	10	10	1
1,2-DICHLOROPROPANE	<10	ug/L	10	10	1
TRICHLOROETHENE	<10	ug/L	10	10	1
CIS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1
DIBROMOMETHANE	<10	ug/L	10	10	1
BROMODICHLOROMETHANE	<10	ug/L	10	10	1
TOLUENE	<10	ug/L	10	10	1
TRANS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1
1,1,2-TRICHLOROETHANE	<10	ug/L	10	10	1
1,3-DICHLOROPROPANE	<10	ug/L	10	10	1
DIBROMOCHLOROMETHANE	<10	ug/L	10	10	1
TETRACHLOROETHENE	<10	ug/L	10	10	1
1,2-DIBROMOETHANE	<10	ug/L	10	10	1
CHLOROBENZENE	<10	ug/L	10	10	1
1,1,1,2-TETRACHLOROETHANE	<10	ug/L	10	10	1

Report Notes: J, O-2 JCB 12/18/98

00000 84

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	370	ug/L	10	10	1
M+P-XYLENE	1600	ug/L	10	10	1
BROMOFORM	<10	ug/L	10	10	1
O-XYLENE	<10	ug/L	10	10	1
STYRENE	<10	ug/L	10	10	1
1,1,2,2-TETRACHLOROETHANE	<10	ug/L	10	10	1
1,2,3-TRICHLOROPROPANE	<10	ug/L	10	10	1
ISOPROPYLBENZENE	570	ug/L	10	10	1
BROMOBENZENE	<10	ug/L	10	10	1
2-CHLOROTOLUENE	<10	ug/L	10	10	1
N-PROPYLBENZENE	46	ug/L	10	10	1
4-CHLOROTOLUENE	<10	ug/L	10	10	1
1,3,5-TRIMETHYLBENZENE	260	ug/L	10	10	1
TERT-BUTYLBENZENE	<10	ug/L	10	10	1
1,2,4-TRIMETHYLBENZENE	520	ug/L	10	10	1
SEC-BUTYLBENZENE	<10	ug/L	10	10	1
1,3-DICHLOROBENZENE	<10	ug/L	10	10	1
P-ISOPROPYLTOLUENE	<10	ug/L	10	10	1
1,4-DICHLOROBENZENE	<10	ug/L	10	10	1
1,2-DICHLOROBENZENE	<10	ug/L	10	10	1
N-BUTYLBENZENE	<10	ug/L	10	10	1
1,2-DIBROMO-3-CHLOROPROPAN	<10	ug/L	10	10	1
1,2,4-TRICHLOROBENZENE	<10	ug/L	10	10	1
NAPHTHALENE	<10	ug/L	10	10	1
HEXACHLOROBUTADIENE	<10	ug/L	10	10	1
1,2,3-TRICHLOROBENZENE	<10	ug/L	10	10	1
ACETONE	J32	ug/L	10	50	5
2-BUTANONE	<50	ug/L	10	50	5
4-METHYL-2-PENTANONE	<30	ug/L	10	30	3
2-HEXANONE	<40	ug/L	10	40	4
TETRAHYDROFURAN	<10	ug/L	10	10	1
MTBE	<10	ug/L	10	10	1
VINYL ACETATE	<10	ug/L	10	10	1

Report Notes: J, 0-2 JCB 12/18/98

00000 85

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-23DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H101-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	92	%	10		
TOLUENE-D8	102	%	10		
P-BROMOFLUOROBENZENE	106	%	10		
1,2-DICHLOROETHANE-D4	90	%	10		

Report Notes: J,O-2 JB 12/18/98

00000 85A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H201-1098

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-024

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1.8	~~B~~	U 2/5 4	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	B1	ug/L	1.0	1.0	1.0
ACETONE	J4	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	J0.6	ug/L	1.0	1.0	1.0

U' since detected in TB-2 at a higher level

Report Notes: B, J

0000087

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Long List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes:

0000087

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes:

0000088

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	92	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		

Report Notes:

0000088A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

00000 87

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

000088

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-24
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H201-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes:

00000 88A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: H003-1098
Matrix: WATER
SDG Name: WO3179
Percent Solids: 0.00
Lab Sample ID: WO3179-025

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	622			P	1

Color Before:
Clarity Before:
Artifacts:
Color After:
Clarity After:
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	~~B3~~ U	ug/L	1.0	1.0	1.0
ACETONE	14 U	ug/L	1.0	5	5
CARBON DISULFIDE	3 J2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	30 J2	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	3 J2	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	91 J2	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	~~E450~~ 580 *	ug/L	~~1.0~~ 5	~~1.0~~ 5	1.0

Report Notes: B, J, #, E

0000090

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	86	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	119	%	1.0		
1,2-DICHLOROETHANE-D4	#194	%	1.0		

one surrogate out above QC limits - estimate pos results

Report Notes: B, J, #, E

0000091

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<10	ug/L	5.0	10	2.0
BROMOMETHANE	<10	ug/L	5.0	10	2.0
VINYL CHLORIDE	<10	ug/L	5.0	10	2.0
CHLOROETHANE	<10	ug/L	5.0	10	2.0
METHYLENE CHLORIDE	B6	ug/L	5.0	5	1.0
ACETONE	JB24	ug/L	5.0	25	5
CARBON DISULFIDE	6	ug/L	5.0	5	1.0
1,1-DICHLOROETHENE	<5	ug/L	5.0	5	1.0
1,1-DICHLOROETHANE	<5	ug/L	5.0	5	1.0
TOTAL 1,2-DICHLOROETHENE	<5	ug/L	5.0	5	1.0
CHLOROFORM	<5	ug/L	5.0	5	1.0
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1.0
2-BUTANONE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1.0
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1.0
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
TRICHLOROETHENE	<5	ug/L	5.0	5	1.0
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1.0
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1.0
BENZENE	37	ug/L	5.0	5	1.0
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1.0
BROMOFORM	<5	ug/L	5.0	5	1.0
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRACHLOROETHENE	<5	ug/L	5.0	5	1.0
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1.0
TOLUENE	J4	ug/L	5.0	5	1.0
CHLOROBENZENE	<5	ug/L	5.0	5	1.0
ETHYLBENZENE	100	ug/L	5.0	5	1.0
STYRENE	<5	ug/L	5.0	5	1.0
TOTAL XYLENES	580	ug/L	5.0	5	1.0

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	5.0		
TOLUENE-D8	104	%	5.0		
P-BROMOFLUOROBENZENE	110	%	5.0		
1,2-DICHLOROETHANE-D4	96	%	5.0		

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	J3 5U	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	30 J2	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	J3	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J, E, #

0000090

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	91 J2	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5 J2	ug/L	1.0	5	5
ISOPROPYLBENZENE	180 J	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5 J2	ug/L	1.0	5	5
N-PROPYLBENZENE	33 J2	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5 J2	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	150 J2	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	300 ~~E270~~	ug/L	~~1.0~~ 5	~~5~~ 25	5
NAPHTHALENE	J2	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	~~14~~ 144	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	580 ~~E460~~	ug/L	~~1.0~~ 5	~~5~~ 25	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, E, #

0000091

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	J3	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	86	%	1.0		
1,2-DICHLOROETHANE-D4	#194	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	119	%	1.0		

One surrogate above 6 limits out → ~~no action~~ estimate pos values J2

Report Notes: J, E, #

0000091A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<25	ug/L	5.0	25	5
CHLOROMETHANE	<25	ug/L	5.0	25	5
VINYL CHLORIDE	<10	ug/L	5.0	10	2
BROMOMETHANE	<25	ug/L	5.0	25	5
CHLOROETHANE	<25	ug/L	5.0	25	5
TRICHLOROFLUOROMETHANE	<25	ug/L	5.0	25	5
1,1-DICHLOROETHENE	<25	ug/L	5.0	25	5
METHYLENE CHLORIDE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHENE (TRANS)	<25	ug/L	5.0	25	5
1,1-DICHLOROETHANE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHENE (CIS)	<25	ug/L	5.0	25	5
2,2-DICHLOROPROPANE	<25	ug/L	5.0	25	5
CHLOROFORM	<25	ug/L	5.0	25	5
BROMOCHLOROMETHANE	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHANE	<25	ug/L	5.0	25	5
1,1-DICHLOROPROPENE	<25	ug/L	5.0	25	5
CARBON TETRACHLORIDE	<25	ug/L	5.0	25	5
BENZENE	37	ug/L	5.0	25	5
1,2-DICHLOROPROPANE	<25	ug/L	5.0	25	5
TRICHLOROETHENE	<25	ug/L	5.0	25	5
DIBROMOMETHANE	<25	ug/L	5.0	25	5
BROMODICHLOROMETHANE	<25	ug/L	5.0	25	5
CIS-1,3-DICHLOROPROPENE	<25	ug/L	5.0	25	5
TOLUENE	<25	ug/L	5.0	25	5
TRANS-1,3-DICHLOROPROPENE	<25	ug/L	5.0	25	5
1,1,2-TRICHLOROETHANE	<25	ug/L	5.0	25	5
1,3-DICHLOROPROPANE	<25	ug/L	5.0	25	5
DIBROMOCHLOROMETHANE	<25	ug/L	5.0	25	5
TETRACHLOROETHENE	<25	ug/L	5.0	25	5
1,2-DIBROMOETHANE	<25	ug/L	5.0	25	5
CHLOROBENZENE	<25	ug/L	5.0	25	5
1,1,1,2-TETRACHLOROETHANE	<25	ug/L	5.0	25	5

Report Notes: O-2

0000092

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	100	ug/L	5.0	25	5
BROMOFORM	<25	ug/L	5.0	25	5
STYRENE	<25	ug/L	5.0	25	5
1,1,2,2-TETRACHLOROETHANE	<25	ug/L	5.0	25	5
1,2,3-TRICHLOROPROPANE	<25	ug/L	5.0	25	5
ISOPROPYLBENZENE	190	ug/L	5.0	25	5
BROMOBENZENE	<25	ug/L	5.0	25	5
2-CHLOROTOLUENE	<25	ug/L	5.0	25	5
N-PROPYLBENZENE	32	ug/L	5.0	25	5
4-CHLOROTOLUENE	<25	ug/L	5.0	25	5
1,3,5-TRIMETHYLBENZENE	160	ug/L	5.0	25	5
TERT-BUTYLBENZENE	<25	ug/L	5.0	25	5
1,2,4-TRICHLOROBENZENE	<25	ug/L	5.0	25	5
SEC-BUTYLBENZENE	<25	ug/L	5.0	25	5
1,3-DICHLOROBENZENE	<25	ug/L	5.0	25	5
P-ISOPROPYLTOLUENE	<25	ug/L	5.0	25	5
1,4-DICHLOROBENZENE	<25	ug/L	5.0	25	5
1,2-DICHLOROBENZENE	<25	ug/L	5.0	25	5
N-BUTYLBENZENE	<25	ug/L	5.0	25	5
1,2-DIBROMO-3-CHLOROPROPAN	<25	ug/L	5.0	25	5
1,2,4-TRIMETHYLBENZENE	300	ug/L	5.0	25	5
NAPHTHALENE	<25	ug/L	5.0	25	5
HEXACHLOROBUTADIENE	<25	ug/L	5.0	25	5
1,2,3-TRICHLOROBENZENE	<25	ug/L	5.0	25	5
MTBE	<25	ug/L	5.0	25	5
ACETONE	<50	ug/L	5.0	50	10
2-BUTANONE	<50	ug/L	5.0	50	10
4-METHYL-2-PENTANONE	<50	ug/L	5.0	50	10
2-HEXANONE	<50	ug/L	5.0	50	10
M+P-XYLENE	580	ug/L	5.0	25	5
O-XYLENE	<25	ug/L	5.0	25	5
1,3,5-TRICHLOROBENZENE	<25	ug/L	5.0	25	5
VINYL ACETATE	<25	ug/L	5.0	25	5.0

Report Notes: O-2

0000093

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<25	ug/L	5.0	25	5
DIETHYL ETHER	<25	ug/L	5.0	25	5
TETRAHYDROFURAN	<50	ug/L	5.0	50	10
DIBROMOFLUOROMETHANE	90	%	5.0		
1,2-DICHLOROETHANE-D4	96	%	5.0		
TOLUENE-D8	104	%	5.0		
P-BROMOFLUOROBENZENE	110	%	5.0		

Report Notes: O-2

0000093A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	3	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	30	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	3	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: E, # JCB 12/18/98

000090

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	91	ug/L	1.0	1	1
M+P-XYLENE	E460	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	180	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	33	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	150	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	E270	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	2	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	14	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: E, # JCB 12/18/98

000091

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	86	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	119	%	1.0		
1,2-DICHLOROETHANE-D4	#194	%	1.0		

Report Notes: E, # JCB 12/18/98

0000091A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<10	ug/L	5.0	10	2
CHLOROMETHANE	<10	ug/L	5.0	10	2
VINYL CHLORIDE	<10	ug/L	5.0	10	2
BROMOMETHANE	<10	ug/L	5.0	10	2
CHLOROETHANE	<10	ug/L	5.0	10	2
TRICHLOROFLUOROMETHANE	<10	ug/L	5.0	10	2
1,1-DICHLOROETHENE	<5	ug/L	5.0	5	1
METHYLENE CHLORIDE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	5.0	5	1
1,1-DICHLOROETHANE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHENE (CIS)	<5	ug/L	5.0	5	1
2,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1
BROMOCHLOROMETHANE	<5	ug/L	5.0	5	1
CHLOROFORM	<5	ug/L	5.0	5	1
1,1,1-TRICHLOROETHANE	<5	ug/L	5.0	5	1
1,2-DICHLOROETHANE	<5	ug/L	5.0	5	1
1,1-DICHLOROPROPENE	<5	ug/L	5.0	5	1
CARBON TETRACHLORIDE	<5	ug/L	5.0	5	1
BENZENE	37	ug/L	5.0	5	1
1,2-DICHLOROPROPANE	<5	ug/L	5.0	5	1
TRICHLOROETHENE	<5	ug/L	5.0	5	1
CIS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1
DIBROMOMETHANE	<5	ug/L	5.0	5	1
BROMODICHLOROMETHANE	<5	ug/L	5.0	5	1
TOLUENE	<5	ug/L	5.0	5	1
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	5.0	5	1
1,1,2-TRICHLOROETHANE	<5	ug/L	5.0	5	1
1,3-DICHLOROPROPANE	<5	ug/L	5.0	5	1
DIBROMOCHLOROMETHANE	<5	ug/L	5.0	5	1
TETRACHLOROETHENE	<5	ug/L	5.0	5	1
1,2-DIBROMOETHANE	<5	ug/L	5.0	5	1
CHLOROBENZENE	<5	ug/L	5.0	5	1
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1

Report Notes: J, O-2 JCB 12/18/98

000092

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	100	ug/L	5.0	5	1
M+P-XYLENE	580	ug/L	5.0	5	1
BROMOFORM	<5	ug/L	5.0	5	1
O-XYLENE	<5	ug/L	5.0	5	1
STYRENE	<5	ug/L	5.0	5	1
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	5.0	5	1
1,2,3-TRICHLOROPROPANE	<5	ug/L	5.0	5	1
ISOPROPYLBENZENE	190	ug/L	5.0	5	1
BROMOBENZENE	<5	ug/L	5.0	5	1
2-CHLOROTOLUENE	<5	ug/L	5.0	5	1
N-PROPYLBENZENE	32	ug/L	5.0	5	1
4-CHLOROTOLUENE	<5	ug/L	5.0	5	1
1,3,5-TRIMETHYLBENZENE	160	ug/L	5.0	5	1
TERT-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,2,4-TRIMETHYLBENZENE	300	ug/L	5.0	5	1
SEC-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,3-DICHLOROBENZENE	<5	ug/L	5.0	5	1
P-ISOPROPYLTOLUENE	<5	ug/L	5.0	5	1
1,4-DICHLOROBENZENE	<5	ug/L	5.0	5	1
1,2-DICHLOROBENZENE	<5	ug/L	5.0	5	1
N-BUTYLBENZENE	<5	ug/L	5.0	5	1
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	5.0	5	1
1,2,4-TRICHLOROBENZENE	<5	ug/L	5.0	5	1
NAPHTHALENE	<5	ug/L	5.0	5	1
HEXACHLOROBUTADIENE	<5	ug/L	5.0	5	1
1,2,3-TRICHLOROBENZENE	<5	ug/L	5.0	5	1
ACETONE	J24	ug/L	5.0	25	5
2-BUTANONE	<25	ug/L	5.0	25	5
4-METHYL-2-PENTANONE	<15	ug/L	5.0	15	3
2-HEXANONE	<20	ug/L	5.0	20	4
TETRAHYDROFURAN	<5	ug/L	5.0	5	1
MTBE	<5	ug/L	5.0	5	1
VINYL ACETATE	<5	ug/L	5.0	5	1

Report Notes: J, O-2 JCB 12/18/98

0000093

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-25DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H003-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	5.0		
TOLUENE-D8	104	%	5.0		
P-BROMOFLUOROBENZENE	110	%	5.0		
1,2-DICHLOROETHANE-D4	96	%	5.0		

Report Notes: J, D-2 JCB 12/18/98

0000093A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: H005-1098
Matrix: WATER
SDG Name: WO3179
Percent Solids: 0.00
Lab Sample ID: WO3179-026

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1240			P	1

Color Before:
Clarity Before:
Artifacts:
Color After:
Clarity After:
Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	~~2~~ 2 U	ug/L	1.0	1.0	1.0
ACETONE	21 ~~B~~	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 J 2	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	2 J 2	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	14 J 2	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	8 J 2	ug/L	1.0	1.0	1.0

Report Notes: B, #

0000095

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	87	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	111	%	1.0		
1,2-DICHLOROETHANE-D4	#152	%	1.0		

one surrout above QC limits - estimate pos values J2

Report Notes: B, #

0000096

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<20	ug/L	10	20	2.0
BROMOMETHANE	<20	ug/L	10	20	2.0
VINYL CHLORIDE	<20	ug/L	10	20	2.0
CHLOROETHANE	<20	ug/L	10	20	2.0
METHYLENE CHLORIDE	B19	ug/L	10	10	1.0
ACETONE	JB27	ug/L	10	50	5
CARBON DISULFIDE	<10	ug/L	10	10	1.0
1,1-DICHLOROETHENE	<10	ug/L	10	10	1.0
1,1-DICHLOROETHANE	<10	ug/L	10	10	1.0
TOTAL 1,2-DICHLOROETHENE	<10	ug/L	10	10	1.0
CHLOROFORM	<10	ug/L	10	10	1.0
1,2-DICHLOROETHANE	<10	ug/L	10	10	1.0
2-BUTANONE	<50	ug/L	10	50	5
1,1,1-TRICHLOROETHANE	<10	ug/L	10	10	1.0
CARBON TETRACHLORIDE	<10	ug/L	10	10	1.0
BROMODICHLOROMETHANE	<10	ug/L	10	10	1.0
1,2-DICHLOROPROPANE	<10	ug/L	10	10	1.0
CIS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1.0
TRICHLOROETHENE	<10	ug/L	10	10	1.0
DIBROMOCHLOROMETHANE	<10	ug/L	10	10	1.0
1,1,2-TRICHLOROETHANE	<10	ug/L	10	10	1.0
BENZENE	<10	ug/L	10	10	1.0
TRANS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1.0
BROMOFORM	<10	ug/L	10	10	1.0
4-METHYL-2-PENTANONE	<30	ug/L	10	30	3
2-HEXANONE	<40	ug/L	10	40	4
TETRACHLOROETHENE	<10	ug/L	10	10	1.0
1,1,2,2-TETRACHLOROETHANE	<10	ug/L	10	10	1.0
TOLUENE	<10	ug/L	10	10	1.0
CHLOROBENZENE	<10	ug/L	10	10	1.0
ETHYLBENZENE	J10	ug/L	10	10	1.0
STYRENE	<10	ug/L	10	10	1.0
TOTAL XYLENES	J6	ug/L	10	10	1.0

Don't report

Report Notes: B, J, O-1, O-2

0000097

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	10		
TOLUENE-D8	102	%	10		
P-BROMOFLUOROBENZENE	105	%	10		
1,2-DICHLOROETHANE-D4	88	%	10		

Report Notes: B, J, O-1, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Long Cis

Lab Number: WO3179-26
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J, #

0000095

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	14 J2	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5 J2	ug/L	1.0	5	5
ISOPROPYLBENZENE	120 J	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	16 J2	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	36 J2	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5 J2	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	11 J	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	21	ug/L	1.0	10	10
2-BUTANONE	J5	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10 J2	ug/L	1.0	10	10
M+P-XYLENE	8 J2	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, #

0000096

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	87	%	1.0		
1,2-DICHLOROETHANE-D4	#152	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	111	%	1.0		

one surrogate - out ~~reaction~~ above GC limits - estimate pos values J2

Report Notes: J, #

0000096A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

I don't know why DL was run.

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<50	ug/L	10	50	5
CHLOROMETHANE	<50	ug/L	10	50	5
VINYL CHLORIDE	<20	ug/L	10	20	2
BROMOMETHANE	<50	ug/L	10	50	5
CHLOROETHANE	<50	ug/L	10	50	5
TRICHLOROFLUOROMETHANE	<50	ug/L	10	50	5
1,1-DICHLOROETHENE	<50	ug/L	10	50	5
METHYLENE CHLORIDE	<50	ug/L	10	50	5
1,2-DICHLOROETHENE (TRANS)	<50	ug/L	10	50	5
1,1-DICHLOROETHANE	<50	ug/L	10	50	5
1,2-DICHLOROETHENE (CIS)	<50	ug/L	10	50	5
2,2-DICHLOROPROPANE	<50	ug/L	10	50	5
CHLOROFORM	<50	ug/L	10	50	5
BROMOCHLOROMETHANE	<50	ug/L	10	50	5
1,1,1-TRICHLOROETHANE	<50	ug/L	10	50	5
1,2-DICHLOROETHANE	<50	ug/L	10	50	5
1,1-DICHLOROPROPENE	<50	ug/L	10	50	5
CARBON TETRACHLORIDE	<50	ug/L	10	50	5
BENZENE	<50	ug/L	10	50	5
1,2-DICHLOROPROPANE	<50	ug/L	10	50	5
TRICHLOROETHENE	<50	ug/L	10	50	5
DIBROMOMETHANE	<50	ug/L	10	50	5
BROMODICHLOROMETHANE	<50	ug/L	10	50	5
CIS-1,3-DICHLOROPROPENE	<50	ug/L	10	50	5
TOLUENE	<50	ug/L	10	50	5
TRANS-1,3-DICHLOROPROPENE	<50	ug/L	10	50	5
1,1,2-TRICHLOROETHANE	<50	ug/L	10	50	5
1,3-DICHLOROPROPANE	<50	ug/L	10	50	5
DIBROMOCHLOROMETHANE	<50	ug/L	10	50	5
TETRACHLOROETHENE	<50	ug/L	10	50	5
1,2-DIBROMOETHANE	<50	ug/L	10	50	5
CHLOROBENZENE	<50	ug/L	10	50	5
1,1,1,2-TETRACHLOROETHANE	<50	ug/L	10	50	5

don't report

Report Notes: O-1

0000097

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<50	ug/L	10	50	5
BROMOFORM	<50	ug/L	10	50	5
STYRENE	<50	ug/L	10	50	5
1,1,2,2-TETRACHLOROETHANE	<50	ug/L	10	50	5
1,2,3-TRICHLOROPROPANE	<50	ug/L	10	50	5
ISOPROPYLBENZENE	64	ug/L	10	50	5
BROMOBENZENE	<50	ug/L	10	50	5
2-CHLOROTOLUENE	<50	ug/L	10	50	5
N-PROPYLBENZENE	<50	ug/L	10	50	5
4-CHLOROTOLUENE	<50	ug/L	10	50	5
1,3,5-TRIMETHYLBENZENE	<50	ug/L	10	50	5
TERT-BUTYLBENZENE	<50	ug/L	10	50	5
1,2,4-TRICHLOROBENZENE	<50	ug/L	10	50	5
SEC-BUTYLBENZENE	<50	ug/L	10	50	5
1,3-DICHLOROBENZENE	<50	ug/L	10	50	5
P-ISOPROPYLTOLUENE	<50	ug/L	10	50	5
1,4-DICHLOROBENZENE	<50	ug/L	10	50	5
1,2-DICHLOROBENZENE	<50	ug/L	10	50	5
N-BUTYLBENZENE	<50	ug/L	10	50	5
1,2-DIBROMO-3-CHLOROPROPAN	<50	ug/L	10	50	5
1,2,4-TRIMETHYLBENZENE	<50	ug/L	10	50	5
NAPHTHALENE	<50	ug/L	10	50	5
HEXACHLOROBUTADIENE	<50	ug/L	10	50	5
1,2,3-TRICHLOROBENZENE	<50	ug/L	10	50	5
MTBE	<50	ug/L	10	50	5
ACETONE	<100	ug/L	10	100	10
2-BUTANONE	<100	ug/L	10	100	10
4-METHYL-2-PENTANONE	<100	ug/L	10	100	10
2-HEXANONE	<100	ug/L	10	100	10
M+P-XYLENE	<50	ug/L	10	50	5
O-XYLENE	<50	ug/L	10	50	5
1,3,5-TRICHLOROBENZENE	<50	ug/L	10	50	5
VINYL ACETATE	<50	ug/L	10	50	5.0

Report Notes: O-1

0000098

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<50	ug/L	10	50	5
DIETHYL ETHER	<50	ug/L	10	50	5
TETRAHYDROFURAN	<100	ug/L	10	100	10
DIBROMOFLUOROMETHANE	90	%	10		
1,2-DICHLOROETHANE-D4	88	%	10		
TOLUENE-D8	102	%	10		
P-BROMOFLUOROBENZENE	105	%	10		

Report Notes: O-1

0000098A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: # JCB 12/18/98

0000095

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	14	ug/L	1.0	1	1
M+P-XYLENE	8	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	120	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	16	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	36	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	11	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	21	ug/L	1.0	5	5
2-BUTANONE	5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: # JCB 12/18/98

0000096

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	87	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	111	%	1.0		
1,2-DICHLOROETHANE-D4	#152	%	1.0		

Report Notes: # JCB 12/18/98

000096A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<20	ug/L	10	20	2
CHLOROMETHANE	<20	ug/L	10	20	2
VINYL CHLORIDE	<20	ug/L	10	20	2
BROMOMETHANE	<20	ug/L	10	20	2
CHLOROETHANE	<20	ug/L	10	20	2
TRICHLOROFLUOROMETHANE	<20	ug/L	10	20	2
1,1-DICHLOROETHENE	<10	ug/L	10	10	1
METHYLENE CHLORIDE	<10	ug/L	10	10	1
1,2-DICHLOROETHENE (TRANS)	<10	ug/L	10	10	1
1,1-DICHLOROETHANE	<10	ug/L	10	10	1
1,2-DICHLOROETHENE (CIS)	<10	ug/L	10	10	1
2,2-DICHLOROPROPANE	<10	ug/L	10	10	1
BROMOCHLOROMETHANE	<10	ug/L	10	10	1
CHLOROFORM	<10	ug/L	10	10	1
1,1,1-TRICHLOROETHANE	<10	ug/L	10	10	1
1,2-DICHLOROETHANE	<10	ug/L	10	10	1
1,1-DICHLOROPROPENE	<10	ug/L	10	10	1
CARBON TETRACHLORIDE	<10	ug/L	10	10	1
BENZENE	<10	ug/L	10	10	1
1,2-DICHLOROPROPANE	<10	ug/L	10	10	1
TRICHLOROETHENE	<10	ug/L	10	10	1
CIS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1
DIBROMOMETHANE	<10	ug/L	10	10	1
BROMODICHLOROMETHANE	<10	ug/L	10	10	1
TOLUENE	<10	ug/L	10	10	1
TRANS-1,3-DICHLOROPROPENE	<10	ug/L	10	10	1
1,1,2-TRICHLOROETHANE	<10	ug/L	10	10	1
1,3-DICHLOROPROPANE	<10	ug/L	10	10	1
DIBROMOCHLOROMETHANE	<10	ug/L	10	10	1
TETRACHLOROETHENE	<10	ug/L	10	10	1
1,2-DIBROMOETHANE	<10	ug/L	10	10	1
CHLOROBENZENE	<10	ug/L	10	10	1
1,1,1,2-TETRACHLOROETHANE	<10	ug/L	10	10	1

Report Notes: J, O-1 JCB 12/18/98

0000097

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<10	ug/L	10	10	1
M+P-XYLENE	<10	ug/L	10	10	1
BROMOFORM	<10	ug/L	10	10	1
O-XYLENE	<10	ug/L	10	10	1
STYRENE	<10	ug/L	10	10	1
1,1,2,2-TETRACHLOROETHANE	<10	ug/L	10	10	1
1,2,3-TRICHLOROPROPANE	<10	ug/L	10	10	1
ISOPROPYLBENZENE	64	ug/L	10	10	1
BROMOBENZENE	<10	ug/L	10	10	1
2-CHLOROTOLUENE	<10	ug/L	10	10	1
N-PROPYLBENZENE	<10	ug/L	10	10	1
4-CHLOROTOLUENE	<10	ug/L	10	10	1
1,3,5-TRIMETHYLBENZENE	<10	ug/L	10	10	1
TERT-BUTYLBENZENE	<10	ug/L	10	10	1
1,2,4-TRIMETHYLBENZENE	<10	ug/L	10	10	1
SEC-BUTYLBENZENE	<10	ug/L	10	10	1
1,3-DICHLOROBENZENE	<10	ug/L	10	10	1
P-ISOPROPYLTOLUENE	<10	ug/L	10	10	1
1,4-DICHLOROBENZENE	<10	ug/L	10	10	1
1,2-DICHLOROBENZENE	<10	ug/L	10	10	1
N-BUTYLBENZENE	<10	ug/L	10	10	1
1,2-DIBROMO-3-CHLOROPROPAN	<10	ug/L	10	10	1
1,2,4-TRICHLOROBENZENE	<10	ug/L	10	10	1
NAPHTHALENE	<10	ug/L	10	10	1
HEXACHLOROBUTADIENE	<10	ug/L	10	10	1
1,2,3-TRICHLOROBENZENE	<10	ug/L	10	10	1
ACETONE	J27	ug/L	10	50	5
2-BUTANONE	<50	ug/L	10	50	5
4-METHYL-2-PENTANONE	<30	ug/L	10	30	3
2-HEXANONE	<40	ug/L	10	40	4
TETRAHYDROFURAN	<10	ug/L	10	10	1
MTBE	<10	ug/L	10	10	1
VINYL ACETATE	<10	ug/L	10	10	1

Report Notes: J, O-1 JCB 12/18/98

0000098

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-26DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H005-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	10		
TOLUENE-D8	102	%	10		
P-BROMOFLUOROBENZENE	105	%	10		
1,2-DICHLOROETHANE-D4	88	%	10		

Report Notes: J, O-1 JCB 12/18/98

0000098A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H006A-1098

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-027

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	78.1	J4		P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	B1 U1	ug/L	1.0	1.0	1.0
ACETONE	7 U1	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	90	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Long List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J

0000100

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	~~J7~~ 10 U	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

0000101

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	94	%	1.0		
1,2-DICHLOROETHANE-D4	90	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		

Report Notes: J

0000101A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: J

0000100

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	7	ug/L	1.0	5	5
2-BUTANONE	J3	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: J

0000101

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-27
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H006A-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	103	%	1.0		
1,2-DICHLOROETHANE-D4	90	%	1.0		

Report Notes: J

0000101A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services | **Client Field ID:** H007-1098

Matrix: WATER | **SDG Name:** WO3179

Percent Solids: 0.00 | **Lab Sample ID:** WO3179-028

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	470			P	1

Color Before: | **Clarity Before:** | **Artifacts:**

Color After: | ***Clarity After:***

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	~~B3~~ U1	ug/L	1.0	1.0	1.0
ACETONE	18 U1	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	J0.6	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	3	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	82	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	400	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: *Mr. Vincent DelloRusso*
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	89	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Long List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	~~J3~~ 5U	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	J3	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J, E

0000103

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	82	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	E1600 J3	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	59	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	E300 J3	ug/L	1.0	5	5
TERT-BUTYLBENZENE	9	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	8	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	25	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	E530 J3	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	18 U'	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	390	ug/L	1.0	5	5
O-XYLENE	J3	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, E

J3 - Estimate due to above calib range of instrument

0000104

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	89	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		

Report Notes: J, E

00001044

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	3	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	3	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: E

0000103

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 12/19/98
PO No.: 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	82	ug/L	1.0	1	1
M+P-XYLENE	390	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	3	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	E1600	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	59	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	E300	ug/L	1.0	1	1
TERT-BUTYLBENZENE	9	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	E530	ug/L	1.0	1	1
SEC-BUTYLBENZENE	8	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	25	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	18	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: E

0000104

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-28
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H007-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	89	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes: E

0000104A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H008-1098

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-029

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	690		J4	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	1.0U ~~J0.8~~	ug/L	1.0	1.0	1.0
ACETONE	5U ~~[illegible]~~	ug/L	1.0	5	5
CARBON DISULFIDE	J0.6	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	12 J2	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	6 J2	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	1 U'	ug/L	1.0	1.0	1.0

Report Notes: B, J, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	#68	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	#739	%	1.0		

KRT J - one surrout above QC limits estimate pos. values

Report Notes: B, J, #

0000107

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<40	ug/L	20	40	2.0
BROMOMETHANE	<40	ug/L	20	40	2.0
VINYL CHLORIDE	<40	ug/L	20	40	2.0
CHLOROETHANE	<40	ug/L	20	40	2.0
METHYLENE CHLORIDE	JB11	ug/L	20	20	1.0
ACETONE	JB72	ug/L	20	100	5
CARBON DISULFIDE	<20	ug/L	20	20	1.0
1,1-DICHLOROETHENE	<20	ug/L	20	20	1.0
1,1-DICHLOROETHANE	<20	ug/L	20	20	1.0
TOTAL 1,2-DICHLOROETHENE	<20	ug/L	20	20	1.0
CHLOROFORM	<20	ug/L	20	20	1.0
1,2-DICHLOROETHANE	<20	ug/L	20	20	1.0
2-BUTANONE	<100	ug/L	20	100	5
1,1,1-TRICHLOROETHANE	<20	ug/L	20	20	1.0
CARBON TETRACHLORIDE	<20	ug/L	20	20	1.0
BROMODICHLOROMETHANE	<20	ug/L	20	20	1.0
1,2-DICHLOROPROPANE	<20	ug/L	20	20	1.0
CIS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
TRICHLOROETHENE	<20	ug/L	20	20	1.0
DIBROMOCHLOROMETHANE	<20	ug/L	20	20	1.0
1,1,2-TRICHLOROETHANE	<20	ug/L	20	20	1.0
BENZENE	<20	ug/L	20	20	1.0
TRANS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1.0
BROMOFORM	<20	ug/L	20	20	1.0
4-METHYL-2-PENTANONE	<60	ug/L	20	60	3
2-HEXANONE	<80	ug/L	20	80	4
TETRACHLOROETHENE	<20	ug/L	20	20	1.0
1,1,2,2-TETRACHLOROETHANE	<20	ug/L	20	20	1.0
TOLUENE	<20	ug/L	20	20	1.0
CHLOROBENZENE	<20	ug/L	20	20	1.0
ETHYLBENZENE	<20	ug/L	20	20	1.0
STYRENE	<20	ug/L	20	20	1.0
TOTAL XYLENES	<20	ug/L	20	20	1.0

Don't report

Report Notes: B, J, O-1

0000108

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	20		
TOLUENE-D8	105	%	20		
P-BROMOFLUOROBENZENE	112	%	20		
1,2-DICHLOROETHANE-D4	104	%	20		

Report Notes: B, J, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5 UJ	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5 J	ug/L	1.0	5	5
BENZENE	12	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5 UJ	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

✓ Report this sample with estimated results or diluted (1:20) results unflagged since sum in DL sample met QC.

Report Notes: J, E, #

0000106

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	6 J2	ug/L	1.0	5	5
BROMOFORM	<5 UJ2	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	90 J2	ug/L	1.0	5	5
BROMOBENZENE	<5 UJ2	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	15 J2	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5 UJ2	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	19 J2	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5 UJ2	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	J4	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5 UJ2	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	6 J2	ug/L	1.0	5	5
NAPHTHALENE	<5 UJ2	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	100 J2 ~~J8~~ ~~10 UJ2~~	ug/L	1.0	10	10
2-BUTANONE	<10 UJ2	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, E, #

0000107

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	#68	%	1.0		
1,2-DICHLOROETHANE-D4	#739	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		

2 surrogates out; pos + non-detected results will be estimated J2/UJ2

Report Notes: J, E, #

00001074

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<100	ug/L	20	100	5
CHLOROMETHANE	<100	ug/L	20	100	5
VINYL CHLORIDE	<40	ug/L	20	40	2
BROMOMETHANE	<100	ug/L	20	100	5
CHLOROETHANE	<100	ug/L	20	100	5
TRICHLOROFLUOROMETHANE	<100	ug/L	20	100	5
1,1-DICHLOROETHENE	<100	ug/L	20	100	5
METHYLENE CHLORIDE	<100	ug/L	20	100	5
1,2-DICHLOROETHENE (TRANS)	<100	ug/L	20	100	5
1,1-DICHLOROETHANE	<100	ug/L	20	100	5
1,2-DICHLOROETHENE (CIS)	<100	ug/L	20	100	5
2,2-DICHLOROPROPANE	<100	ug/L	20	100	5
CHLOROFORM	<100	ug/L	20	100	5
BROMOCHLOROMETHANE	<100	ug/L	20	100	5
1,1,1-TRICHLOROETHANE	<100	ug/L	20	100	5
1,2-DICHLOROETHANE	<100	ug/L	20	100	5
1,1-DICHLOROPROPENE	<100	ug/L	20	100	5
CARBON TETRACHLORIDE	<100	ug/L	20	100	5
BENZENE	<100	ug/L	20	100	5
1,2-DICHLOROPROPANE	<100	ug/L	20	100	5
TRICHLOROETHENE	<100	ug/L	20	100	5
DIBROMOMETHANE	<100	ug/L	20	100	5
BROMODICHLOROMETHANE	<100	ug/L	20	100	5
CIS-1,3-DICHLOROPROPENE	<100	ug/L	20	100	5
TOLUENE	<100	ug/L	20	100	5
TRANS-1,3-DICHLOROPROPENE	<100	ug/L	20	100	5
1,1,2-TRICHLOROETHANE	<100	ug/L	20	100	5
1,3-DICHLOROPROPANE	<100	ug/L	20	100	5
DIBROMOCHLOROMETHANE	<100	ug/L	20	100	5
TETRACHLOROETHENE	<100	ug/L	20	100	5
1,2-DIBROMOETHANE	<100	ug/L	20	100	5
CHLOROBENZENE	<100	ug/L	20	100	5
1,1,1,2-TETRACHLOROETHANE	<100	ug/L	20	100	5

Report Notes: O-1

0000108

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<100	ug/L	20	100	5
BROMOFORM	<100	ug/L	20	100	5
STYRENE	<100	ug/L	20	100	5
1,1,2,2-TETRACHLOROETHANE	<100	ug/L	20	100	5
1,2,3-TRICHLOROPROPANE	<100	ug/L	20	100	5
ISOPROPYLBENZENE	<100	ug/L	20	100	5
BROMOBENZENE	<100	ug/L	20	100	5
2-CHLOROTOLUENE	<100	ug/L	20	100	5
N-PROPYLBENZENE	<100	ug/L	20	100	5
4-CHLOROTOLUENE	<100	ug/L	20	100	5
1,3,5-TRIMETHYLBENZENE	<100	ug/L	20	100	5
TERT-BUTYLBENZENE	<100	ug/L	20	100	5
1,2,4-TRICHLOROBENZENE	<100	ug/L	20	100	5
SEC-BUTYLBENZENE	<100	ug/L	20	100	5
1,3-DICHLOROBENZENE	<100	ug/L	20	100	5
P-ISOPROPYLTOLUENE	<100	ug/L	20	100	5
1,4-DICHLOROBENZENE	<100	ug/L	20	100	5
1,2-DICHLOROBENZENE	<100	ug/L	20	100	5
N-BUTYLBENZENE	<100	ug/L	20	100	5
1,2-DIBROMO-3-CHLOROPROPAN	<100	ug/L	20	100	5
1,2,4-TRIMETHYLBENZENE	<100	ug/L	20	100	5
NAPHTHALENE	<100	ug/L	20	100	5
HEXACHLOROBUTADIENE	<100	ug/L	20	100	5
1,2,3-TRICHLOROBENZENE	<100	ug/L	20	100	5
MTBE	<100	ug/L	20	100	5
ACETONE	<200	ug/L	20	200	10
2-BUTANONE	<200	ug/L	20	200	10
4-METHYL-2-PENTANONE	<200	ug/L	20	200	10
2-HEXANONE	<200	ug/L	20	200	10
M+P-XYLENE	<100	ug/L	20	100	5
O-XYLENE	<100	ug/L	20	100	5
1,3,5-TRICHLOROBENZENE	<100	ug/L	20	100	5
VINYL ACETATE	<100	ug/L	20	100	5.0

Report Notes: O-1

0000109

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<100	ug/L	20	100	5
DIETHYL ETHER	<100	ug/L	20	100	5
TETRAHYDROFURAN	<200	ug/L	20	200	10
DIBROMOFLUOROMETHANE	90	%	20		
1,2-DICHLOROETHANE-D4	104	%	20		
TOLUENE-D8	105	%	20		
P-BROMOFLUOROBENZENE	112	%	20		

Report Notes: O-1

0000109A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L UJ 2	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	12 J	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1 UJ	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: E, # JGB 12/18/98

0000106

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	6 J	ug/L	1.0	1	1
M+P-XYLENE	<1 UJ	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	90 J	ug/L	1.0	1	1
BROMOBENZENE	<1 UJ	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1 UJ	ug/L	1.0	1	1
N-PROPYLBENZENE	15 J	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1 UJ	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	19 J	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1 UJ	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	6 J	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1 UJ	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	4 J	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1 UJ	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	8 J	ug/L	1.0	5	5
2-BUTANONE	<5 UJ	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: E,# JCB 12/18/98

0000107

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	# 68	%	1.0		
TOLUENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	# 739	%	1.0		

Report Notes: E, # JCB 12/18/98

0000107A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<40	ug/L	20	40	2
CHLOROMETHANE	<40	ug/L	20	40	2
VINYL CHLORIDE	<40	ug/L	20	40	2
BROMOMETHANE	<40	ug/L	20	40	2
CHLOROETHANE	<40	ug/L	20	40	2
TRICHLOROFLUOROMETHANE	<40	ug/L	20	40	2
1,1-DICHLOROETHENE	<20	ug/L	20	20	1
METHYLENE CHLORIDE	<20	ug/L	20	20	1
1,2-DICHLOROETHENE (TRANS)	<20	ug/L	20	20	1
1,1-DICHLOROETHANE	<20	ug/L	20	20	1
1,2-DICHLOROETHENE (CIS)	<20	ug/L	20	20	1
2,2-DICHLOROPROPANE	<20	ug/L	20	20	1
BROMOCHLOROMETHANE	<20	ug/L	20	20	1
CHLOROFORM	<20	ug/L	20	20	1
1,1,1-TRICHLOROETHANE	<20	ug/L	20	20	1
1,2-DICHLOROETHANE	<20	ug/L	20	20	1
1,1-DICHLOROPROPENE	<20	ug/L	20	20	1
CARBON TETRACHLORIDE	<20	ug/L	20	20	1
BENZENE	<20	ug/L	20	20	1
1,2-DICHLOROPROPANE	<20	ug/L	20	20	1
TRICHLOROETHENE	<20	ug/L	20	20	1
CIS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1
DIBROMOMETHANE	<20	ug/L	20	20	1
BROMODICHLOROMETHANE	<20	ug/L	20	20	1
TOLUENE	<20	ug/L	20	20	1
TRANS-1,3-DICHLOROPROPENE	<20	ug/L	20	20	1
1,1,2-TRICHLOROETHANE	<20	ug/L	20	20	1
1,3-DICHLOROPROPANE	<20	ug/L	20	20	1
DIBROMOCHLOROMETHANE	<20	ug/L	20	20	1
TETRACHLOROETHENE	<20	ug/L	20	20	1
1,2-DIBROMOETHANE	<20	ug/L	20	20	1
CHLOROBENZENE	<20	ug/L	20	20	1
1,1,1,2-TETRACHLOROETHANE	<20	ug/L	20	20	1

Report Notes: J, O-1 JCB 12/18/98

0000108

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<20	ug/L	20	20	1
M+P-XYLENE	<20	ug/L	20	20	1
BROMOFORM	<20	ug/L	20	20	1
O-XYLENE	<20	ug/L	20	20	1
STYRENE	<20	ug/L	20	20	1
1,1,2,2-TETRACHLOROETHANE	<20	ug/L	20	20	1
1,2,3-TRICHLOROPROPANE	<20	ug/L	20	20	1
ISOPROPYLBENZENE	<20	ug/L	20	20	1
BROMOBENZENE	<20	ug/L	20	20	1
2-CHLOROTOLUENE	<20	ug/L	20	20	1
N-PROPYLBENZENE	<20	ug/L	20	20	1
4-CHLOROTOLUENE	<20	ug/L	20	20	1
1,3,5-TRIMETHYLBENZENE	<20	ug/L	20	20	1
TERT-BUTYLBENZENE	<20	ug/L	20	20	1
1,2,4-TRIMETHYLBENZENE	<20	ug/L	20	20	1
SEC-BUTYLBENZENE	<20	ug/L	20	20	1
1,3-DICHLOROBENZENE	<20	ug/L	20	20	1
P-ISOPROPYLTOLUENE	<20	ug/L	20	20	1
1,4-DICHLOROBENZENE	<20	ug/L	20	20	1
1,2-DICHLOROBENZENE	<20	ug/L	20	20	1
N-BUTYLBENZENE	<20	ug/L	20	20	1
1,2-DIBROMO-3-CHLOROPROPAN	<20	ug/L	20	20	1
1,2,4-TRICHLOROBENZENE	<20	ug/L	20	20	1
NAPHTHALENE	<20	ug/L	20	20	1
HEXACHLOROBUTADIENE	<20	ug/L	20	20	1
1,2,3-TRICHLOROBENZENE	<20	ug/L	20	20	1
ACETONE	J72	ug/L	20	100	5
2-BUTANONE	<100	ug/L	20	100	5
4-METHYL-2-PENTANONE	<60	ug/L	20	60	3
2-HEXANONE	<80	ug/L	20	80	4
TETRAHYDROFURAN	<20	ug/L	20	20	1
MTBE	<20	ug/L	20	20	1
VINYL ACETATE	<20	ug/L	20	20	1

Report Notes: J, O-1 YCB 12/18/98

0000109

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-29DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H008-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	20		
TOLUENE-D8	105	%	20		
P-BROMOFLUOROBENZENE	112	%	20		
1,2-DICHLOROETHANE-D4	104	%	20		

Report Notes: J, O-1 JCB 12/18/98

0000109A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H009

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-030

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	1060		B	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

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	3 U	ug/L	1.0	1.0	1.0
ACETONE	8 U	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J3	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Long List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	5 JBV'	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J

0000111

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	~~18~~ 104	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

0000112

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	90	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		

Report Notes: J

0000112A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	3	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000111

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	8	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000112

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-30
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H009	AQ	10/13/98	10/16/98	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	90	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	104	%	1.0		
1,2-DICHLOROETHANE-D4	92	%	1.0		

Report Notes:

0000112A

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** H010-1098

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-031

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	850		J	P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0 UJ	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	~~B3~~ UJ	ug/L	1.0	1.0	1.0
ACETONE	24 UJ ~~B24 B~~	ug/L	1.0	5	5
CARBON DISULFIDE	J0.9	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1 UJ	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 J	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1 UJ	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	13 J	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1 UJ	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: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	#65	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	#794	%	1.0		

J 2/40 22 surrogates out - Estimate pos + non-detected values

Report Notes: B, J, #

0000115

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<200	ug/L	100	200	2.0
BROMOMETHANE	JB110	ug/L	100	200	2.0
VINYL CHLORIDE	<200	ug/L	100	200	2.0
CHLOROETHANE	<200	ug/L	100	200	2.0
METHYLENE CHLORIDE	B170	ug/L	100	100	1.0
ACETONE	<500	ug/L	100	500	5
CARBON DISULFIDE	<100	ug/L	100	100	1.0
1,1-DICHLOROETHENE	<100	ug/L	100	100	1.0
1,1-DICHLOROETHANE	<100	ug/L	100	100	1.0
TOTAL 1,2-DICHLOROETHENE	<100	ug/L	100	100	1.0
CHLOROFORM	<100	ug/L	100	100	1.0
1,2-DICHLOROETHANE	<100	ug/L	100	100	1.0
2-BUTANONE	<500	ug/L	100	500	5
1,1,1-TRICHLOROETHANE	<100	ug/L	100	100	1.0
CARBON TETRACHLORIDE	<100	ug/L	100	100	1.0
BROMODICHLOROMETHANE	<100	ug/L	100	100	1.0
1,2-DICHLOROPROPANE	<100	ug/L	100	100	1.0
CIS-1,3-DICHLOROPROPENE	<100	ug/L	100	100	1.0
TRICHLOROETHENE	B220	ug/L	100	100	1.0
DIBROMOCHLOROMETHANE	<100	ug/L	100	100	1.0
1,1,2-TRICHLOROETHANE	<100	ug/L	100	100	1.0
BENZENE	<100	ug/L	100	100	1.0
TRANS-1,3-DICHLOROPROPENE	<100	ug/L	100	100	1.0
BROMOFORM	<100	ug/L	100	100	1.0
4-METHYL-2-PENTANONE	<300	ug/L	100	300	3
2-HEXANONE	<400	ug/L	100	400	4
TETRACHLOROETHENE	<100	ug/L	100	100	1.0
1,1,2,2-TETRACHLOROETHANE	<100	ug/L	100	100	1.0
TOLUENE	<100	ug/L	100	100	1.0
CHLOROBENZENE	<100	ug/L	100	100	1.0
ETHYLBENZENE	<100	ug/L	100	100	1.0
STYRENE	<100	ug/L	100	100	1.0
TOTAL XYLENES	<100	ug/L	100	100	1.0

Report Notes: B, J, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	93	%	100		
TOLUENE-D8	97	%	100		
P-BROMOFLUOROBENZENE	91	%	100		
1,2-DICHLOROETHANE-D4	91	%	100		

Report Notes: B, J, O-1

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5 UJ2	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	5 UJ2 J	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	13 J2	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5 UJ2	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report this sample with estimated results or DL results unflagged

Report Notes: J, #

0000114

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5 UJ2	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	190 J2	ug/L	1.0	5	5
BROMOBENZENE	<5 UJ2	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	46 J2	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5 UJ2	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	140 J2	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5 UJ2	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	J4	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5 UJ2	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	67 J2	ug/L	1.0	5	5
NAPHTHALENE	<5 UJ2	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	24 UJ2	ug/L	1.0	10	10
2-BUTANONE	<10 UJ2	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J, #

0000115

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5 UJ2	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	#65	%	1.0		
1,2-DICHLOROETHANE-D4	#794	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		

UJ2/J2 - Two surrogates out - All results estimated

Report Notes: J, #

00001154

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<500	ug/L	100	500	5
CHLOROMETHANE	<500	ug/L	100	500	5
VINYL CHLORIDE	<200	ug/L	100	200	2
BROMOMETHANE	<500	ug/L	100	500	5
CHLOROETHANE	<500	ug/L	100	500	5
TRICHLOROFLUOROMETHANE	<500	ug/L	100	500	5
1,1-DICHLOROETHENE	<500	ug/L	100	500	5
METHYLENE CHLORIDE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (TRANS)	<500	ug/L	100	500	5
1,1-DICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (CIS)	<500	ug/L	100	500	5
2,2-DICHLOROPROPANE	<500	ug/L	100	500	5
CHLOROFORM	<500	ug/L	100	500	5
BROMOCHLOROMETHANE	<500	ug/L	100	500	5
1,1,1-TRICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHANE	<500	ug/L	100	500	5
1,1-DICHLOROPROPENE	<500	ug/L	100	500	5
CARBON TETRACHLORIDE	<500	ug/L	100	500	5
BENZENE	<500	ug/L	100	500	5
1,2-DICHLOROPROPANE	<500	ug/L	100	500	5
TRICHLOROETHENE	<500	ug/L	100	500	5
DIBROMOMETHANE	<500	ug/L	100	500	5
BROMODICHLOROMETHANE	<500	ug/L	100	500	5
CIS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
TOLUENE	<500	ug/L	100	500	5
TRANS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
1,1,2-TRICHLOROETHANE	<500	ug/L	100	500	5
1,3-DICHLOROPROPANE	<500	ug/L	100	500	5
DIBROMOCHLOROMETHANE	<500	ug/L	100	500	5
TETRACHLOROETHENE	<500	ug/L	100	500	5
1,2-DIBROMOETHANE	<500	ug/L	100	500	5
CHLOROBENZENE	<500	ug/L	100	500	5
1,1,1,2-TETRACHLOROETHANE	<500	ug/L	100	500	5

Report Notes: O-1

0000116

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<500	ug/L	100	500	5
BROMOFORM	<500	ug/L	100	500	5
STYRENE	<500	ug/L	100	500	5
1,1,2,2-TETRACHLOROETHANE	<500	ug/L	100	500	5
1,2,3-TRICHLOROPROPANE	<500	ug/L	100	500	5
ISOPROPYLBENZENE	<500	ug/L	100	500	5
BROMOBENZENE	<500	ug/L	100	500	5
2-CHLOROTOLUENE	<500	ug/L	100	500	5
N-PROPYLBENZENE	<500	ug/L	100	500	5
4-CHLOROTOLUENE	<500	ug/L	100	500	5
1,3,5-TRIMETHYLBENZENE	<500	ug/L	100	500	5
TERT-BUTYLBENZENE	<500	ug/L	100	500	5
1,2,4-TRICHLOROBENZENE	<500	ug/L	100	500	5
SEC-BUTYLBENZENE	<500	ug/L	100	500	5
1,3-DICHLOROBENZENE	<500	ug/L	100	500	5
P-ISOPROPYLTOLUENE	<500	ug/L	100	500	5
1,4-DICHLOROBENZENE	<500	ug/L	100	500	5
1,2-DICHLOROBENZENE	<500	ug/L	100	500	5
N-BUTYLBENZENE	<500	ug/L	100	500	5
1,2-DIBROMO-3-CHLOROPROPAN	<500	ug/L	100	500	5
1,2,4-TRIMETHYLBENZENE	<500	ug/L	100	500	5
NAPHTHALENE	<500	ug/L	100	500	5
HEXACHLOROBUTADIENE	<500	ug/L	100	500	5
1,2,3-TRICHLOROBENZENE	<500	ug/L	100	500	5
MTBE	<500	ug/L	100	500	5
ACETONE	<1000	ug/L	100	1000	10
2-BUTANONE	<1000	ug/L	100	1000	10
4-METHYL-2-PENTANONE	<1000	ug/L	100	1000	10
2-HEXANONE	<1000	ug/L	100	1000	10
M+P-XYLENE	<500	ug/L	100	500	5
O-XYLENE	<500	ug/L	100	500	5
1,3,5 TRICHLOROBENZENE	<500	ug/L	100	500	5
VINYL ACETATE	<500	ug/L	100	500	5.0

Report Notes: O-1

0000117

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<500	ug/L	100	500	5
DIETHYL ETHER	<500	ug/L	100	500	5
TETRAHYDROFURAN	<1000	ug/L	100	1000	10
DIBROMOFLUOROMETHANE	93	%	100		
1,2-DICHLOROETHANE-D4	91	%	100		
TOLUENE-D8	97	%	100		
P-BROMOFLUOROBENZENE	91	%	100		

Report Notes: O-1

00001174

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	3	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	13	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes: E # JCB 12/18/98

0000114

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	190	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	46	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	140	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	67	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	4	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	24	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3 ~~56200~~ YCB 12/18/98	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes: E # YCB 12/18/98

0000115

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	65	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		
1,2-DICHLOROETHANE-D4	#-794	%	1.0		

Report Notes: E # JCB 12/18/98

0000115A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<200	ug/L	100	200	2
CHLOROMETHANE	<200	ug/L	100	200	2
VINYL CHLORIDE	<200	ug/L	100	200	2
BROMOMETHANE	J110	ug/L	100	200	2
CHLOROETHANE	<200	ug/L	100	200	2
TRICHLOROFLUOROMETHANE	<200	ug/L	100	200	2
1,1-DICHLOROETHENE	<100	ug/L	100	100	1
METHYLENE CHLORIDE	B170	ug/L	100	100	1
1,2-DICHLOROETHENE (TRANS)	<100	ug/L	100	100	1
1,1-DICHLOROETHANE	<100	ug/L	100	100	1
1,2-DICHLOROETHENE (CIS)	<100	ug/L	100	100	1
2,2-DICHLOROPROPANE	<100	ug/L	100	100	1
BROMOCHLOROMETHANE	<100	ug/L	100	100	1
CHLOROFORM	<100	ug/L	100	100	1
1,1,1-TRICHLOROETHANE	<100	ug/L	100	100	1
1,2-DICHLOROETHANE	<100	ug/L	100	100	1
1,1-DICHLOROPROPENE	<100	ug/L	100	100	1
CARBON TETRACHLORIDE	<100	ug/L	100	100	1
BENZENE	<100	ug/L	100	100	1
1,2-DICHLOROPROPANE	<100	ug/L	100	100	1
TRICHLOROETHENE	<100	ug/L	100	100	1
CIS-1,3-DICHLOROPROPENE	<100	ug/L	100	100	1
DIBROMOMETHANE	<100	ug/L	100	100	1
BROMODICHLOROMETHANE	<100	ug/L	100	100	1
TOLUENE	<100	ug/L	100	100	1
TRANS-1,3-DICHLOROPROPENE	<100	ug/L	100	100	1
1,1,2-TRICHLOROETHANE	<100	ug/L	100	100	1
1,3-DICHLOROPROPANE	<100	ug/L	100	100	1
DIBROMOCHLOROMETHANE	<100	ug/L	100	100	1
TETRACHLOROETHENE	<100	ug/L	100	100	1
1,2-DIBROMOETHANE	<100	ug/L	100	100	1
CHLOROBENZENE	<100	ug/L	100	100	1
1,1,1,2-TETRACHLOROETHANE	<100	ug/L	100	100	1

Report Notes: B, J, O-1 JCS 12/18/98

0000116

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<100	ug/L	100	100	1
M+P-XYLENE	<100	ug/L	100	100	1
BROMOFORM	<100	ug/L	100	100	1
O-XYLENE	<100	ug/L	100	100	1
STYRENE	<100	ug/L	100	100	1
1,1,2,2-TETRACHLOROETHANE	<100	ug/L	100	100	1
1,2,3-TRICHLOROPROPANE	<100	ug/L	100	100	1
ISOPROPYLBENZENE	<100	ug/L	100	100	1
BROMOBENZENE	<100	ug/L	100	100	1
2-CHLOROTOLUENE	<100	ug/L	100	100	1
N-PROPYLBENZENE	<100	ug/L	100	100	1
4-CHLOROTOLUENE	<100	ug/L	100	100	1
1,3,5-TRIMETHYLBENZENE	<100	ug/L	100	100	1
TERT-BUTYLBENZENE	<100	ug/L	100	100	1
1,2,4-TRIMETHYLBENZENE	<100	ug/L	100	100	1
SEC-BUTYLBENZENE	<100	ug/L	100	100	1
1,3-DICHLOROBENZENE	<100	ug/L	100	100	1
P-ISOPROPYLTOLUENE	<100	ug/L	100	100	1
1,4-DICHLOROBENZENE	<100	ug/L	100	100	1
1,2-DICHLOROBENZENE	<100	ug/L	100	100	1
N-BUTYLBENZENE	<100	ug/L	100	100	1
1,2-DIBROMO-3-CHLOROPROPAN	<100	ug/L	100	100	1
1,2,4-TRICHLOROBENZENE	<100	ug/L	100	100	1
NAPHTHALENE	<100	ug/L	100	100	1
HEXACHLOROBUTADIENE	<100	ug/L	100	100	1
1,2,3-TRICHLOROBENZENE	<100	ug/L	100	100	1
ACETONE	<500	ug/L	100	500	5
2-BUTANONE	<500	ug/L	100	500	5
4-METHYL-2-PENTANONE	<300	ug/L	100	300	3
2-HEXANONE	<400	ug/L	100	400	4
TETRAHYDROFURAN	1300	ug/L	100	100	1
MTBE	<100	ug/L	100	100	1
VINYL ACETATE	<100	ug/L	100	100	1

Report Notes: B, J, O-1 JCB 12/18/98

0000117

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-31DL
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H010-1098	AQ	10/13/98	10/16/98	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	93	%	100		
TOLUENE-D8	97	%	100		
P-BROMOFLUOROBENZENE	91	%	100		
1,2-DICHLOROETHANE-D4	91	%	100		

Report Notes: B, J, O-1 JCB 12/18/98

0000117A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Short List

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

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	~~B~~2 U1	ug/L	1.0	1.0	1.0
ACETONE	~~B~~15 U1	ug/L	1.0	5	5
CARBON DISULFIDE	2	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	J4	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	27	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	3	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	9	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	35	ug/L	1.0	1.0	1.0

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	95	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	108	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	27	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	J3	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J

0000118

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	9	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	36	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	6	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	J5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	13	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	15 U'	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	34	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

0000119

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	*Sample* PQL	*Method* PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	95	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	108	%	1.0		

Report Notes: J

00001194

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	27	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	3	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000118

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	9	ug/L	1.0	1	1
M+P-XYLENE	34	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	36	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	6	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	13	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	5	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	15	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000119

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-33
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
H004-1098	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	95	%	1.0		
TOLUENE-D8	103	%	1.0		
P-BROMOFLUOROBENZENE	108	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

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	~~B~~4	ug/L	1.0	1.0	1.0
ACETONE	~~B~~5	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<1	ug/L	1.0	1.0	1.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	<1	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRACHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<1	ug/L	1.0	1.0	1.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<1	ug/L	1.0	1.0	1.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<1	ug/L	1.0	1.0	1.0

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 10/29/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes: B

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	J4	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J

0000120

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	J5	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

0000121

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	94	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		

Report Notes: J

0000121A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	4	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000120

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000121

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-34
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
TB-2	AQ	10/13/98	10/16/98	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	100	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		
1,2-DICHLOROETHANE-D4	91	%	1.0		

Report Notes:

Resubmits !

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** OJ20ICS1

Matrix: SOIL **SDG Name:** WO3179

Method: P **Prep Date:** 10/20/98

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSSOJ20ICS1	LCSSOJ20ICS1	0.5	0.1
PBSOJ20ICS1	PBSOJ20ICS1	1	0.1
S001-1098-12/13	WO3179-001	1.33	0.1
S001-1098-12/13	WO3179-001A	1.33	0.1
S001-1098-12/13D	WO3179-001D	1.35	0.1
S001-1098-12/13S	WO3179-001S	1.39	0.1
S002-1098-8/9.6	WO3179-002	1.53	0.1
S001-1098-14.3/15.2	WO3179-004	1.3	0.1
S002-1098-12.7/13.6	WO3179-005	1.35	0.1
S004-1098-12.3/13.3	WO3179-006	1.23	0.1
S003-1098-8/9	WO3179-007	1.23	0.1
S004-1098-8/10	WO3179-008	1.11	0.1
S006-1098-13.5/14	WO3179-009	1.51	0.1
S007-1098-4.5/5.5	WO3179-010	1.17	0.1
S005-1098-15/16	WO3179-011	1.25	0.1
S003-1098-12.5/14	WO3179-012	1.96	0.1
S103-1098-12.5/14	WO3179-039	1.17	0.1

R2

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** OJ20ICW1

Matrix: WATER **SDG Name:** WO3179

Method: P **Prep Date:** 10/20/98

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWOJ20ICW1	LCSWOJ20ICW1	0.05	0.05
PBWOJ20ICW1	PBWOJ20ICW1	0.05	0.05
H001-1098	WO3179-022	0.05	0.05
H101-1098	WO3179-023	0.05	0.05
H201-1098	WO3179-024	0.05	0.05
H003-1098	WO3179-025	0.05	0.05
H005-1098	WO3179-026	0.05	0.05
H006A-1098	WO3179-027	0.05	0.05
H007-1098	WO3179-028	0.05	0.05
H008-1098	WO3179-029	0.05	0.05
H009	WO3179-030	0.05	0.05
H009	WO3179-030A	0.05	0.05
H009P	WO3179-030P	0.05	0.05
H009S	WO3179-030S	0.05	0.05
H010-1098	WO3179-031	0.05	0.05

R3

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** OJ24ICW2

Matrix: WATER **SDG Name:** WO3179

Method: P **Prep Date:** 10/24/98

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWOJ24ICW2	LCSWOJ24ICW2	0.05	0.05
PBWOJ24ICW2	PBWOJ24ICW2	0.05	0.05
S001-1098-12/13	WO3179-035V	0.05	0.05
S001-1098-12/13	WO3179-035VA	0.05	0.05
S001-1098-12/13D	WO3179-035VD	0.05	0.05
S001-1098-12/13S	WO3179-035VS	0.05	0.05
S002-1098-8/9.6	WO3179-036V	0.05	0.05
S003-1098-12.5/14	WO3179-037V	0.05	0.05
S103-1098-12.5/14	WO3179-038V	0.05	0.05

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S001-1098-12/13

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-035V

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	3.7	B		P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: S002-1098-8/9.6
Matrix: WATER
SDG Name: WO3179
Percent Solids: 0.00
Lab Sample ID: WO3179-036V

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	2.8	B		P	1

Color Before:
Clarity Before:
Artifacts:
Color After:
Clarity After:
Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S003-1098-12.5/14

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-037V

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	12.0			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S103-1098-12.5/14

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-038V

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	10.3			P	1

Color Before: **Clarity Before:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** S103-1098-12.5/14

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 79.5 **Lab Sample ID:** WO3179-039

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

CAS No.	Analyte	Concentration	C	Q	M	DF
7439-92-1	LEAD	17.7			P	1

Color Before: **Texture:** **Artifacts:**

Color After: **Clarity After:**

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-39
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S103-1098-12.5/14	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	80.	wt %	1.0	0.10	CLP/CIP SOW	10/21/98	JF	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 10/20/98 by JF

11/02/98

LJO/baelp(dw)/msm

Katahdin
ANALYTICAL SERVICES

CLIENT: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

Lab Number : WO-3179-39
Report Date: 11/02/98
PO No. : 10971-028-001-00096-00
Project : CHARLESTON,RI SITE 8

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S103-1098-12.5/14	Solid	CLIENT	10/12/98	10/16/98

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Gasoline Range Organics								1,2,3,4
Gasoline Range Organics	400. J2	mg/kgdrywt	5.2	2.5	SW8015M	10/24/98	JY	
4-Bromofluorobenzene	MI151	%	5.2		SW8015M	10/24/98	JY	
a,a,a-Trifluorotoluene (% Recovery)	DL	%	5.2		SW8015M	10/24/98	JY	

* 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 10/22/98 by JEY
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(3) "MI" denotes surrogate recovery out of criteria due to matrix interference.
(4) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.

11/02/98

LJO/jcbjdy/lp(dw)

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: *Mr. Vincent DelloRusso*
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-39
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 80
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S103-1098-12.5/14	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.3	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.3	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.3	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.3	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.3	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.3	400	330
2-METHYLPHENOL	<400	ug/Kg	1.3	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.3	400	330
4-METHYLPHENOL	<400	ug/Kg	1.3	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.3	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.3	400	330
NITROBENZENE	<400	ug/Kg	1.3	400	330
ISOPHORONE	<400	ug/Kg	1.3	400	330
2-NITROPHENOL	<400	ug/Kg	1.3	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg	1.3	400	330
BIS(2-CHLOROETHOXY)METHANE	<400	ug/Kg	1.3	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.3	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.3	400	330
NAPHTHALENE	<400	ug/Kg	1.3	400	330
4-CHLOROANILINE	<400	ug/Kg	1.3	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.3	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.3	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg	1.3	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg	1.3	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.3	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.3	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.3	400	330
2-NITROANILINE	<980	ug/Kg	1.3	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.3	400	330
ACENAPHTHYLENE	<400	ug/Kg	1.3	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.3	400	330
3-NITROANILINE	<980	ug/Kg	1.3	980	820
ACENAPHTHENE	<400	ug/Kg	1.3	400	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-39
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 80
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S103-1098-12.5/14	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.3	980	820
4-NITROPHENOL	<980	ug/Kg	1.3	980	820
DIBENZOFURAN	<400	ug/Kg	1.3	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.3	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.3	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.3	400	330
FLUORENE	<400	ug/Kg	1.3	400	330
4-NITROANILINE	<980	ug/Kg	1.3	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.3	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.3	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.3	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.3	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.3	980	820
PHENANTHRENE	J230	ug/Kg	1.3	400	330
ANTHRACENE	<400	ug/Kg	1.3	400	330
CARBAZOLE	<400	ug/Kg	1.3	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.3	400	330
FLUORANTHENE	J270	ug/Kg	1.3	400	330
PYRENE	J210	ug/Kg	1.3	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.3	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.3	400	330
BENZO[A]ANTHRACENE	<400	ug/Kg	1.3	400	330
CHRYSENE	<400	ug/Kg	1.3	400	330
BIS(2-ETHYLHEXYL)PHTHALATE	<400	ug/Kg	1.3	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.3	400	330
BENZO[B]FLUORANTHENE	<400	ug/Kg	1.3	400	330
BENZO[K]FLUORANTHENE	<400	ug/Kg	1.3	400	330
BENZO[A]PYRENE	<400	ug/Kg	1.3	400	330
INDENO[1,2,3-CD]PYRENE	<400	ug/Kg	1.3	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.3	400	330
BENZO[G,H,I]PERYLENE	<400	ug/Kg	1.3	400	330
2-FLUOROPHENOL	60	ug/Kg	1.3		
PHENOL-D5	58	ug/Kg	1.3		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: WO3179-39
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 80
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
S103-1098-12.5/14	SL	10/12/98	10/16/98	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	55	ug/Kg	1.3		
2-FLUOROBIPHENYL	65	ug/Kg	1.3		
2,4,6-TRIBROMOPHENOL	63	ug/Kg	1.3		
TERPHENYL-D14	55	ug/Kg	1.3		

Report Notes: J

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSOJ20ICS1

Matrix: SOIL **SDG Name:** WO3179

QC Batch ID: OJ20ICS1

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

Analyte	RESULT	C
LEAD	0.288	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWOJ20ICW1

Matrix: WATER **SDG Name:** WO3179

QC Batch ID: OJ20ICW1

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

Analyte	RESULT	C
LEAD	2.830	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWOJ24ICW2

Matrix: WATER **SDG Name:** WO3179

QC Batch ID: OJ24ICW2

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

Analyte	RESULT	C
LEAD	1.820	B

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSSOJ20ICS1

Matrix: SOIL **SDG Name:** WO3179

QC Batch ID: OJ20ICS1

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

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	143.0	157.83	110.4	76	124

FORM VII - IN

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWOJ20ICW1

Matrix: WATER **SDG Name:** WO3179

QC Batch ID: OJ20ICW1

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

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	518.64	103.7	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWOJ24ICW2

Matrix: WATER **SDG Name:** WO3179

QC Batch ID: OJ24ICW2

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

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	494.31	98.9	80	120

FORM VII - IN

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** S001-1098-12/13S

Matrix: SOIL | **SDG Name:** WO3179

Percent Solids: 97.8 | **Lab Sample ID:** WO3179-001S

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

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD	40.9590		7.4813		36.78	91.0		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** H009S

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-030P

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

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD	1558.8800		1055.2800		500	100.7		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** H009S

Matrix: WATER | **SDG Name:** WO3179

Percent Solids: 0.00 | **Lab Sample ID:** WO3179-030S

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

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD	1518.6700		1055.2800		500	92.7		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** S001-1098-12/13S

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-035VS

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

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD	542.2100		3.6600	B	500	107.7		75	125	P

Comments:

DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** S001-1098-12/13D

Matrix: SOIL **SDG Name:** WO3179

Percent Solids: 97.8 **Lab Sample ID:** WO3179-001D

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

Analyte	Control Limits	Sample Result	C	Duplicate Result	C	RPD	Q	M
LEAD		7.4813		7.2606		3.0		P

Comments:

DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** S001-1098-12/13D

Matrix: WATER **SDG Name:** WO3179

Percent Solids: 0.00 **Lab Sample ID:** WO3179-035VD

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

Analyte	Control Limits	Sample Result	C	Duplicate Result	C	RPD	Q	M
LEAD		3.6600	B	2.8600	B	24.5		P

Less than PQL of 5 ug/L

Comments:

FORM VI - IN

Katahdin Analytical Services, Inc.
Quality Control Report

Client:Roy F. Weston
Work Order:WO3179

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method: 8015M

Soil Matrix

4BSGROOJ22
Result File: 4OJ1225
Date Extracted: 10/22/98
Date Analyzed:10/22/98

Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos.	Date Extracted	Date Analyzed
4LSGROOJ22	10/22/98	10/22/98	1			
4LSDGROOJ22	10/22/98	10/22/98	1			
WO3179-1	10/22/98	10/22/98	1			
WO3179-1MS	10/22/98	10/22/98	1			
WO3179-1MSD	10/22/98	10/22/98	1			
WO3179-2	10/22/98	10/23/98	1			

Compound	Conc. (mg/kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Client:Roy F. Weston
Work Order:WO3179

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method: 8015M

Soil Matrix

4BSGROOJ24
Result File: 4OJ1246
Date Extracted: 10/22/98
Date Analyzed:10/23/98

Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos.	Date Extracted	Date Analyzed
WO3179-21	10/22/98	10/23/98	1			
WO3179-7	10/22/98	10/23/98	1			
WO3179-8	10/22/98	10/23/98	1			
WO3179-9	10/22/98	10/23/98	1			
WO3179-10	10/22/98	10/23/98	1			
WO3179-11	10/22/98	10/23/98	1			

Compound	Conc. (mg/kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Client:Roy F. Weston
Work Order:WO3179

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method: 8015M

Soil Matrix

4BSGROOJ24
Result File: 4OJ1263
Date Extracted: 10/22/98
Date Analyzed:10/24/98

Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos.	Date Extracted	Date Analyzed
WO3179-4	10/22/98	10/24/98	4			
WO3179-5	10/22/98	10/24/98	4			
WO3179-6	10/22/98	10/24/98	1			
WO3179-12	10/22/98	10/24/98	4			
WO3179-39	10/22/98	10/24/98	4			

Compound	Conc. (mg/kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WO3179

Laboratory Control Sample Results

GRO by GC Method: 8015M

Name: LS/DGROOJ22
Result File: 4OJ1224/25
Date of Extraction: 10/22/98
Date of Analysis: 10/22/98

Soil Matrix

Compound	Units	Spike Conc.	LCS Measured Conc.	LSC Dup. Measured Conc.	LCS % Recovery	LSC Dup. % Recovery	Recovery Acceptance Range (%	RPD (%)	RPD Acceptance Range (%)
GRO	mg/kg	25.0	26.6	26.6	106	106	60-140	0	0-20
a,a,a-TFT	ug/l	20.0	21.2	22.0	106	110	29-135		
4-BFB	ug/l	20.0	19.6	19.2	98	96	43-146		

NA = Not applicable.

0000147

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston

Work Order: WO3179

Matrix Spike/Matrix Spike Duplicate Results

GRO by GC Method: ME DEP 8015M

Soil Matrix

Result Files: 4OJ1238/39

Sample No. Spiked: WO3179-1

Compound	Units	MS Spike Conc.	MSD Spike Conc.	Sample Conc.	MS Measured Conc.	MSD Measured Conc.	MS % Recovery	MSD % Recovery	Recovery Acceptance Range (%) *	RPD (%)	RPD Acceptance Range (%) *
GRO	mg/kg	23.6	26.4	<2.5	25.1	30.0	107	114	60-140	6.4	0-20
a,a,a- TFT	ug/l	20.0	20.0		12.7	11.6	64	58	29-135		
BFB	ug/l	20.0	20.0		17.6	17.5	88	88	43-146		

* Acceptance ranges are obtained from the applicable Maine DEP analytical method 4.2.17. These ranges are based upon method performance data generated from the analysis of quality control check samples and not actual environmental samples. The laboratory does not use the MS/MSD acceptance ranges as quality control acceptance criteria; the MS/MSD data are used to evaluate method performance for the environmental sample matrix. Please refer to LCS/LCSD data for assessment of quality control for this method.

NA = Not applicable.
NC = Not calculable.

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKS20A

Lab Name: Katahdin Analytical Services SDG No.: WO3179

Lab File ID: S1618 Lab Sample ID: VBLKS20A

Date Analyzed: 10/20/98 Time Analyzed: 11:30

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSS20A	LCSS20A	S1617	10/20/98	10:42:00 AM
S001-1098-12/13	WO3179-1	S1619	10/20/98	12:29:00 PM
S001-1098-12/13 MS	WO3179-1MS	S1620	10/20/98	1:16:00 PM
S001-1098-12/13 MSD	WO3179-1MSD	S1621	10/20/98	2:04:00 PM
S002-1098-8/9.6	WO3179-2	S1622	10/20/98	2:52:00 PM
S001-1098-14.3/15.2	WO3179-4	S1624	10/20/98	4:28:00 PM
S004-1098-12.3/13.3	WO3179-6	S1626	10/20/98	6:02:00 PM
S003-1098-8/9	WO3179-7	S1627	10/20/98	6:50:00 PM
S004-1098-8/10	WO3179-8	S1628	10/20/98	7:37:00 PM
S006-1098-13.5/14	WO3179-9	S1629	10/20/98	8:25:00 PM
S007-1098-4.5/5.5	WO3179-10	S1630	10/20/98	9:12:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS20A
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS20A	AQ	-	-	10/20/98	KRT	5030	KRT

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	<5.0	ug/L	1.0	5.0	5.0
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	<5.0	ug/L	1.0	5.0	5.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<5.0	ug/L	1.0	5.0	5.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<5.0	ug/L	1.0	5.0	5.0

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS20A
Report Date: 10/28/98
PO No. : *10971-028-001-00096-00*
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	113	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS20A
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<10	ug/L	1.0	10	10
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes:

0000150

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS20A
Report Date: 11/17/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes:

0000151

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKS20A
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKS20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	113	%	1.0		
1,2-DICHLOROETHANE-D4	112	%	1.0		
TOLUENE-D8	113	%	1.0		
P-BROMOFLUOROBENZENE	102	%	1.0		

Report Notes:

0000151A

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKZ20A

Lab Name: Katahdin Analytical Services SDG No.: WO3179

Lab File ID: Z7725 Lab Sample ID: VBLKZ20A

Date Analyzed: 10/20/98 Time Analyzed: 12:25

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSZ20B	LCSZ20B	Z7724	10/20/98	11:39:00 AM
H001-1098	WO3179-22	Z7726	10/20/98	1:13:00 PM
H101-1098	WO3179-23	Z7727	10/20/98	1:50:00 PM
H201-1098	WO3179-24	Z7728	10/20/98	2:28:00 PM
H003-1098	WO3179-25	Z7729	10/20/98	3:07:00 PM
H005-1098	WO3179-26	Z7730	10/20/98	3:44:00 PM
H006A-1098	WO3179-27	Z7731	10/20/98	4:23:00 PM
H007-1098	WO3179-28	Z7732	10/20/98	5:02:00 PM
H008-1098	WO3179-29	Z7733	10/20/98	5:40:00 PM
H009	WO3179-30	Z7734	10/20/98	6:17:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	2	ug/L	1.0	1.0	1.0
ACETONE	<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: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes:

0000153

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes:

0000154

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	108	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		

Report Notes:

0000154A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000153

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000154

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ20A
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/20/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ20A	AQ	-	-	10/20/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	108	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		

Report Notes:

0000154A

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKZ21B

Lab Name: Katahdin Analytical Services SDG No.: WO3179

Lab File ID: Z7740 Lab Sample ID: VBLKZ21B

Date Analyzed: 10/21/98 Time Analyzed: 11:09

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSZ21A	LCSZ21A	Z7738	10/21/98	9:44:00 AM
S003-1098-12.5/14	WO3179-12	Z7741	10/21/98	11:55:00 AM
H010-1098	WO3179-31	Z7743	10/21/98	1:12:00 PM
H001-1098	WO3179-22DL	Z7744	10/21/98	1:50:00 PM
H101-1098	WO3179-23DL	Z7745	10/21/98	2:28:00 PM
H003-1098	WO3179-25DL	Z7746	10/21/98	3:05:00 PM
H005-1098	WO3179-26DL	Z7747	10/21/98	3:43:00 PM
H004-1098	WO3179-33	Z7748	10/21/98	4:21:00 PM
TB-2	WO3179-34	Z7749	10/21/98	5:00:00 PM
H008-1098	WO3179-29DL	Z7750	10/21/98	5:38:00 PM
H009MS	WO3179-30MS	Z7751	10/21/98	6:15:00 PM
H009MSD	WO3179-30MSD	Z7752	10/21/98	6:53:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<2.0	ug/L	1.0	2.0	2.0
BROMOMETHANE	<2.0	ug/L	1.0	2.0	2.0
VINYL CHLORIDE	<2.0	ug/L	1.0	2.0	2.0
CHLOROETHANE	<2.0	ug/L	1.0	2.0	2.0
METHYLENE CHLORIDE	J0.6	ug/L	1.0	1.0	1.0
ACETONE	J3	ug/L	1.0	5	5
CARBON DISULFIDE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
1,1-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOTAL 1,2-DICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
CHLOROFORM	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
2-BUTANONE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
CARBON TETRACHLORIDE	<1	ug/L	1.0	1.0	1.0
BROMODICHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1.0	1.0
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
TRICHLOROETHENE	<1	ug/L	1.0	1.0	1.0
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1.0	1.0
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1.0	1.0
BENZENE	<5.0	ug/L	1.0	5.0	5.0
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	<5.0	ug/L	1.0	5.0	5.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<5.0	ug/L	1.0	5.0	5.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	91	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<10	ug/L	1.0	10	10
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes:

0000156

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes:

0000157

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	91	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		

Report Notes:

00001 57A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	<1	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000156

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000157

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKZ21B
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/21/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKZ21B	AQ	-	-	10/21/98	KRT	5030	KRT

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	91	%	1.0		
TOLUENE-D8	104	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	88	%	1.0		

Report Notes:

0000157A

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKQ24A

Lab Name: Katahdin Analytical Services SDG No.: WO3179

Lab File ID: Q3123 Lab Sample ID: VBLKQ24A

Date Analyzed: 10/24/98 Time Analyzed: 11:56

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: 5970-Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSQ24A	LCSQ24A	Q3122	10/24/98	10:49:00 AM
S101-1098-14.3/15.2	WO3179-3	Q3125	10/24/98	1:37:00 PM
S002-1098-12.7/13.6	WO3179-5	Q3126	10/24/98	2:21:00 PM
S005-1098-15/16	WO3179-11	Q3127	10/24/98	3:04:00 PM
TB-1	WO3179-21	Q3128	10/24/98	3:57:00 PM
H010-1098	WO3179-31DL	Q3129	10/24/98	4:41:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24A
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24A	AQ	-	-	10/24/98	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	J0.6	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	2	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	<5.0	ug/L	1.0	5.0	5.0
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1.0	1.0
BROMOFORM	J0.5	ug/L	1.0	1.0	1.0
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	J2	ug/L	1.0	4	4
TETRACHLOROETHENE	J0.8	ug/L	1.0	1.0	1.0
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1.0	1.0
TOLUENE	<5.0	ug/L	1.0	5.0	5.0
CHLOROBENZENE	<1	ug/L	1.0	1.0	1.0
ETHYLBENZENE	<5.0	ug/L	1.0	5.0	5.0
STYRENE	<1	ug/L	1.0	1.0	1.0
TOTAL XYLENES	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24A
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24A	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	111	%	1.0		
TOLUENE-D8	89	%	1.0		
P-BROMOFLUOROBENZENE	101	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24B
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24B	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<5	ug/L	1.0	5	5
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<10	ug/L	1.0	10	10
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
TRICHLOROFLUOROMETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	J3	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
2,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
BROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROPROPENE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	J3	ug/L	1.0	5	5
DIBROMOMETHANE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,3-DICHLOROPROPANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
1,2-DIBROMOETHANE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
1,1,1,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5

Report Notes: J

0000159

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24B
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24B	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROPROPANE	<5	ug/L	1.0	5	5
ISOPROPYLBENZENE	<5	ug/L	1.0	5	5
BROMOBENZENE	<5	ug/L	1.0	5	5
2-CHLOROTOLUENE	<5	ug/L	1.0	5	5
N-PROPYLBENZENE	<5	ug/L	1.0	5	5
4-CHLOROTOLUENE	<5	ug/L	1.0	5	5
1,3,5-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
TERT-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2,4-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
SEC-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,3-DICHLOROBENZENE	<5	ug/L	1.0	5	5
P-ISOPROPYLTOLUENE	<5	ug/L	1.0	5	5
1,4-DICHLOROBENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROBENZENE	<5	ug/L	1.0	5	5
N-BUTYLBENZENE	<5	ug/L	1.0	5	5
1,2-DIBROMO-3-CHLOROPROPAN	<5	ug/L	1.0	5	5
1,2,4-TRIMETHYLBENZENE	<5	ug/L	1.0	5	5
NAPHTHALENE	<5	ug/L	1.0	5	5
HEXACHLOROBUTADIENE	<5	ug/L	1.0	5	5
1,2,3-TRICHLOROBENZENE	<5	ug/L	1.0	5	5
MTBE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
M+P-XYLENE	<5	ug/L	1.0	5	5
O-XYLENE	<5	ug/L	1.0	5	5
1,3,5 TRICHLOROBENZENE	<5	ug/L	1.0	5	5
VINYL ACETATE	<5.0	ug/L	1.0	5.0	5.0

Report Notes: J

0000160

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24B
Report Date: 11/16/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: SW8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24B	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
CARBON DISULFIDE	<5	ug/L	1.0	5	5
DIETHYL ETHER	<5	ug/L	1.0	5	5
TETRAHYDROFURAN	<10	ug/L	1.0	10	10
DIBROMOFLUOROMETHANE	110	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		
TOLUENE-D8	87	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		

Report Notes: J

0000160A

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24B
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24B	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DICHLORODIFLUOROMETHANE	<2	ug/L	1.0	2	2
CHLOROMETHANE	<2	ug/L	1.0	2	2
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<2	ug/L	1.0	2	2
CHLOROETHANE	<2	ug/L	1.0	2	2
TRICHLOROFLUOROMETHANE	<2	ug/L	1.0	2	2
1,1-DICHLOROETHENE	<1	ug/L	1.0	1	1
METHYLENE CHLORIDE	3	ug/L	1.0	1	1
1,2-DICHLOROETHENE (TRANS)	<1	ug/L	1.0	1	1
1,1-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHENE (CIS)	<1	ug/L	1.0	1	1
2,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
BROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
CHLOROFORM	<1	ug/L	1.0	1	1
1,1,1-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE	<1	ug/L	1.0	1	1
1,1-DICHLOROPROPENE	<1	ug/L	1.0	1	1
CARBON TETRACHLORIDE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROPROPANE	<1	ug/L	1.0	1	1
TRICHLOROETHENE	3	ug/L	1.0	1	1
CIS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
DIBROMOMETHANE	<1	ug/L	1.0	1	1
BROMODICHLOROMETHANE	<1	ug/L	1.0	1	1
TOLUENE	<1	ug/L	1.0	1	1
TRANS-1,3-DICHLOROPROPENE	<1	ug/L	1.0	1	1
1,1,2-TRICHLOROETHANE	<1	ug/L	1.0	1	1
1,3-DICHLOROPROPANE	<1	ug/L	1.0	1	1
DIBROMOCHLOROMETHANE	<1	ug/L	1.0	1	1
TETRACHLOROETHENE	<1	ug/L	1.0	1	1
1,2-DIBROMOETHANE	<1	ug/L	1.0	1	1
CHLOROBENZENE	<1	ug/L	1.0	1	1
1,1,1,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1

Report Notes:

0000159

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24B
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24B	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
ETHYLBENZENE	<1	ug/L	1.0	1	1
M+P-XYLENE	<1	ug/L	1.0	1	1
BROMOFORM	<1	ug/L	1.0	1	1
O-XYLENE	<1	ug/L	1.0	1	1
STYRENE	<1	ug/L	1.0	1	1
1,1,2,2-TETRACHLOROETHANE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROPROPANE	<1	ug/L	1.0	1	1
ISOPROPYLBENZENE	<1	ug/L	1.0	1	1
BROMOBENZENE	<1	ug/L	1.0	1	1
2-CHLOROTOLUENE	<1	ug/L	1.0	1	1
N-PROPYLBENZENE	<1	ug/L	1.0	1	1
4-CHLOROTOLUENE	<1	ug/L	1.0	1	1
1,3,5-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
TERT-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2,4-TRIMETHYLBENZENE	<1	ug/L	1.0	1	1
SEC-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,3-DICHLOROBENZENE	<1	ug/L	1.0	1	1
P-ISOPROPYLTOLUENE	<1	ug/L	1.0	1	1
1,4-DICHLOROBENZENE	<1	ug/L	1.0	1	1
1,2-DICHLOROBENZENE	<1	ug/L	1.0	1	1
N-BUTYLBENZENE	<1	ug/L	1.0	1	1
1,2-DIBROMO-3-CHLOROPROPAN	<1	ug/L	1.0	1	1
1,2,4-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
NAPHTHALENE	<1	ug/L	1.0	1	1
HEXACHLOROBUTADIENE	<1	ug/L	1.0	1	1
1,2,3-TRICHLOROBENZENE	<1	ug/L	1.0	1	1
ACETONE	<5	ug/L	1.0	5	5
2-BUTANONE	<5	ug/L	1.0	5	5
4-METHYL-2-PENTANONE	<3	ug/L	1.0	3	3
2-HEXANONE	<4	ug/L	1.0	4	4
TETRAHYDROFURAN	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
VINYL ACETATE	<1	ug/L	1.0	1	1

Report Notes:

0000160

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: VBLKQ24B
Report Date: 12/19/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: N/A
Method: EPA 8260
Date Analyzed: 10/24/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKQ24B	AQ	-	-	10/24/98	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	87	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		
1,2-DICHLOROETHANE-D4	116	%	1.0		

Report Notes:

0000160A

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: S1617 | Sample ID: LCSS20A | Date Run: 10/20/98

Analyst: KRT | Time Injected: 10:42:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1-TRICHLOROETHANE	50	56.3	113	60-140
1,1,2,2-TETRACHLOROETHANE	50	57.7	115	60-140
1,1,2-TRICHLOROETHANE	50	58.8	118	60-140
1,1-DICHLOROETHANE	50	57.4	115	60-140
1,1-DICHLOROETHENE	50	58.0	116	60-140
1,2-DICHLOROBENZENE	50	57.2	114	60-140
1,2-DICHLOROETHANE	50	57.1	114	60-140
1,2-DICHLOROPROPANE	50	54.6	109	60-140
1,3-DICHLOROBENZENE	50	55.4	111	60-140
1,4-DICHLOROBENZENE	50	54.4	109	60-140
2-BUTANONE	50	51.2	102	60-140
2-CHLOROETHYLVINYLETHER	50	86.1	*172	60-140
2-HEXANONE	50	54.5	109	60-140
4-METHYL-2-PENTANONE	50	63.2	126	60-140
ACETONE	50	40.6	81	60-140
BENZENE	50	56.8	114	60-140
BROMODICHLOROMETHANE	50	57.6	115	60-140
BROMOFORM	50	56.0	112	60-140
BROMOMETHANE	50	53.4	107	60-140
CARBON DISULFIDE	50	54.3	108	60-140
CARBON TETRACHLORIDE	50	52.9	106	60-140
CHLOROBENZENE	50	54.3	109	60-140
CHLOROETHANE	50	57.4	115	60-140
CHLOROFORM	50	55.2	110	60-140
CHLOROMETHANE	50	56.5	113	60-140
CIS-1,3-DICHLOROPROPENE	50	61.6	123	60-140
DIBROMOCHLOROMETHANE	50	57.9	116	60-140
ETHYLBENZENE	50	58.2	116	60-140
METHYLENE CHLORIDE	50	57.6	115	60-140
STYRENE	50	58.2	116	60-140
TETRACHLOROETHENE	50	53.8	108	60-140
TETRAHYDROFURAN	50	60.7	121	60-140
TOLUENE	50	60.1	120	60-140
TOTAL 1,2-DICHLOROETHENE	100	119	119	60-140
TOTAL XYLENES	150	173	116	60-140
TRANS-1,3-DICHLOROPROPENE	50	63.2	126	60-140
TRICHLOROETHENE	50	56.0	112	60-140
TRICHLOROFLUOROMETHANE	50	56.8	114	60-140
VINYL ACETATE	50	57.0	114	60-140
VINYL CHLORIDE	50	56.4	113	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Z7724 **Sample ID:** LCSZ20B **Date Run:** 10/20/98

Analyst: KRT **Time Injected:** 11:39:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1-TRICHLOROETHANE	50	55.6	111	60-140
1,1,2,2-TETRACHLOROETHANE	50	48.0	96	60-140
1,1,2-TRICHLOROETHANE	50	55.7	111	60-140
1,1-DICHLOROETHANE	50	55.8	112	60-140
1,1-DICHLOROETHENE	50	59.1	118	60-140
1,2-DICHLOROBENZENE	50	61.2	122	60-140
1,2-DICHLOROETHANE	50	59.3	118	60-140
1,2-DICHLOROPROPANE	50	56.9	114	60-140
1,3-DICHLOROBENZENE	50	60.0	120	60-140
1,4-DICHLOROBENZENE	50	59.0	118	60-140
2-BUTANONE	50	39.3	79	60-140
2-CHLOROETHYLVINYLETHER	50	142	*284	60-140
2-HEXANONE	50	41.7	83	60-140
4-METHYL-2-PENTANONE	50	46.5	93	60-140
ACETONE	50	36.2	72	60-140
BENZENE	50	63.1	126	60-140
BROMODICHLOROMETHANE	50	60.3	120	60-140
BROMOFORM	50	59.9	120	60-140
BROMOMETHANE	50	55.9	112	60-140
CARBON DISULFIDE	50	62.7	125	60-140
CARBON TETRACHLORIDE	50	69.3	138	60-140
CHLOROBENZENE	50	59.4	119	60-140
CHLOROETHANE	50	65.1	130	60-140
CHLOROFORM	50	54.2	108	60-140
CHLOROMETHANE	50	57.4	115	60-140
CIS-1,3-DICHLOROPROPENE	50	64.4	129	60-140
DIBROMOCHLOROMETHANE	50	71.8	*144	60-140
ETHYLBENZENE	50	60.3	120	60-140
METHYLENE CHLORIDE	50	57.1	114	60-140
STYRENE	50	63.8	128	60-140
TETRACHLOROETHENE	50	61.4	123	60-140
TETRAHYDROFURAN	50	42.0	84	60-140
TOLUENE	50	62.2	124	60-140
TOTAL 1,2-DICHLOROETHENE	100	117	117	60-140
TOTAL XYLENES	150	186	124	60-140
TRANS-1,3-DICHLOROPROPENE	50	60.8	122	60-140
TRICHLOROETHENE	50	60.4	121	60-140
TRICHLOROFLUOROMETHANE	50	62.8	126	60-140
VINYL ACETATE	50	46.8	94	60-140
VINYL CHLORIDE	50	65.7	131	60-140

*** Out of Limits** *1*

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Z7738 | Sample ID: LCSZ21A | Date Run: 10/21/98

Analyst: KRT | Time Injected: 9:44:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1-TRICHLOROETHANE	50	52.8	106	60-140
1,1,2,2-TETRACHLOROETHANE	50	53.2	106	60-140
1,1,2-TRICHLOROETHANE	50	55.4	111	60-140
1,1-DICHLOROETHANE	50	52.7	105	60-140
1,1-DICHLOROETHENE	50	52.4	105	60-140
1,2-DICHLOROBENZENE	50	66.5	133	60-140
1,2-DICHLOROETHANE	50	54.6	109	60-140
1,2-DICHLOROPROPANE	50	56.7	113	60-140
1,3-DICHLOROBENZENE	50	68.6	137	60-140
1,4-DICHLOROBENZENE	50	65.6	131	60-140
2-BUTANONE	50	41.6	83	60-140
2-CHLOROETHYLVINYLETHER	50	178	*355	60-140
2-HEXANONE	50	49.2	98	60-140
4-METHYL-2-PENTANONE	50	51.8	104	60-140
ACETONE	50	32.5	65	60-140
BENZENE	50	61.1	122	60-140
BROMODICHLOROMETHANE	50	56.2	112	60-140
BROMOFORM	50	60.5	121	60-140
BROMOMETHANE	50	44.7	89	60-140
CARBON DISULFIDE	50	53.5	107	60-140
CARBON TETRACHLORIDE	50	64.6	129	60-140
CHLOROBENZENE	50	60.9	122	60-140
CHLOROETHANE	50	57.6	115	60-140
CHLOROFORM	50	50.2	100	60-140
CHLOROMETHANE	50	52.2	104	60-140
CIS-1,3-DICHLOROPROPENE	50	66.1	132	60-140
DIBROMOCHLOROMETHANE	50	65.0	130	60-140
ETHYLBENZENE	50	66.5	133	60-140
METHYLENE CHLORIDE	50	48.4	97	60-140
STYRENE	50	67.1	134	60-140
TETRACHLOROETHENE	50	60.0	120	60-140
TETRAHYDROFURAN	50	50.0	100	60-140
TOLUENE	50	61.8	124	60-140
TOTAL 1,2-DICHLOROETHENE	100	115	115	60-140
TOTAL XYLENES	150	203	135	60-140
TRANS-1,3-DICHLOROPROPENE	50	62.3	124	60-140
TRICHLOROETHENE	50	60.0	120	60-140
TRICHLOROFLUOROMETHANE	50	54.6	109	60-140
VINYL ACETATE	50	49.5	99	60-140
VINYL CHLORIDE	50	58.4	117	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: Q3122 **Sample ID:** LCSQ24A **Date Run:** 10/24/98

Analyst: JFS **Time Injected:** 10:49:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
1,1,1-TRICHLOROETHANE	50	57.4	115	60-140
1,1,2,2-TETRACHLOROETHANE	50	53.3	106	60-140
1,1,2-TRICHLOROETHANE	50	52.7	105	60-140
1,1-DICHLOROETHANE	50	64.2	128	60-140
1,1-DICHLOROETHENE	50	61.4	123	60-140
1,2-DICHLOROBENZENE	50	54.0	108	60-140
1,2-DICHLOROETHANE	50	60.1	120	60-140
1,2-DICHLOROPROPANE	50	52.1	104	60-140
1,3-DICHLOROBENZENE	50	53.4	107	60-140
1,4-DICHLOROBENZENE	50	51.6	103	60-140
2-BUTANONE	50	69.4	139	60-140
2-CHLOROETHYLVINYLETHER	50	58.0	116	60-140
2-HEXANONE	50	42.6	85	60-140
4-METHYL-2-PENTANONE	50	59.7	119	60-140
ACETONE	50	48.1	96	60-140
BENZENE	50	53.9	108	60-140
BROMODICHLOROMETHANE	50	54.4	109	60-140
BROMOFORM	50	54.2	108	60-140
BROMOMETHANE	50	46.9	94	60-140
CARBON DISULFIDE	50	51.7	103	60-140
CARBON TETRACHLORIDE	50	51.8	104	60-140
CHLOROBENZENE	50	51.6	103	60-140
CHLOROETHANE	50	58.6	117	60-140
CHLOROFORM	50	59.8	120	60-140
CHLOROMETHANE	50	61.2	122	60-140
CIS-1,3-DICHLOROPROPENE	50	55.8	112	60-140
DIBROMOCHLOROMETHANE	50	57.7	115	60-140
ETHYLBENZENE	50	54.5	109	60-140
METHYLENE CHLORIDE	50	48.1	96	60-140
STYRENE	50	55.5	111	60-140
TETRACHLOROETHENE	50	50.9	102	60-140
TETRAHYDROFURAN	50	82.7	*165	60-140
TOLUENE	50	49.5	99	60-140
TOTAL 1,2-DICHLOROETHENE	100	129	129	60-140
TOTAL XYLENES	150	165	110	60-140
TRANS-1,3-DICHLOROPROPENE	50	58.0	116	60-140
TRICHLOROETHENE	50	47.6	95	60-140
TRICHLOROFLUOROMETHANE	50	66.6	133	60-140
VINYL ACETATE	50	68.6	137	60-140
VINYL CHLORIDE	50	64.0	128	60-140

*** Out of Limits** *1*

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3179-1	S1619	10/20/98	12:29:00 PM	KRT	AQ	8260
WO3179-1MS	S1620	10/20/98	1:16:00 PM	KRT	AQ	8260
WO3179-1MSD	S1621	10/20/98	2:04:00 PM	KRT	AQ	8260

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
BROMODICHLOROMETHANE	0	2100	2100	1750	52.4	83	*2.5	60-140	*190	20
ETHYLBENZENE	0	2100	2100	1830	2240	87	107	60-140	20	20
1,3-DICHLOROBENZENE	0	2100	2100	1730	51.1	82	*2.4	60-140	*190	20
1,4-DICHLOROBENZENE	0	2100	2100	1700	49.0	81	*2.3	60-140	*190	20
2-BUTANONE	0	2100	2100	1610	45.7	77	*2.2	60-140	*190	20
2-CHLOROETHYLVINYLETHER	0	2100	2100	59.7	75.3	*2.8	*3.6	60-140	*23	20
2-HEXANONE	0	2100	2100	1410	1840	67	87	60-140	*26	20
4-METHYL-2-PENTANONE	0	2100	2100	1720	2120	82	101	60-140	*21	20
1,2-DICHLOROETHANE	0	2100	2100	1780	52.6	85	*2.5	60-140	*190	20
BENZENE	0	2100	2100	1790	2180	85	104	60-140	20	20
1,2-DICHLOROBENZENE	0	2100	2100	1760	53.0	84	*2.5	60-140	*190	20
BROMOFORM	0	2100	2100	1630	2020	78	96	60-140	*21	20
BROMOMETHANE	0	2100	2100	1260	1470	60	70	60-140	15	20
CARBON DISULFIDE	0	2100	2100	1740	48.8	83	*2.3	60-140	*190	20
CARBON TETRACHLORIDE	0	2100	2100	1660	48.5	79	*2.3	60-140	*190	20
CHLOROBENZENE	0	2100	2100	1660	2080	79	99	60-140	*22	20
CHLOROETHANE	0	2100	2100	27.8	1760	*1.3	84	60-140	*190	20
CHLOROFORM	0	2100	2100	1800	50.4	86	*2.4	60-140	*190	20
CHLOROMETHANE	0	2100	2100	1690	2060	80	98	60-140	20	20
ACETONE	0	2100	2100	1270	35.6	60	*1.7	60-140	*190	20
TRICHLOROETHENE	0	2100	2100	1710	2100	81	100	60-140	*21	20
METHYLENE CHLORIDE	8.19	2100	2100	2210	59.2	105	*2.4	60-140	*190	20
METHYLENE CHLORIDE	344	2100	2100	2210	59.2	89	*14	60-140	*270	20
STYRENE	0	2100	2100	1820	2280	87	109	60-140	*22	20
TETRACHLOROETHENE	0	2100	2100	1650	2030	79	97	60-140	*21	20.
TETRAHYDROFURAN	0	2100	2100	1940	57.0	92	*2.7	60-140	*190	20
TOLUENE	0	2100	2100	1840	2230	88	106	60-140	19	20
TOTAL 1,2-DICHLOROETHENE	0	4200	4200	88.6	108	*2.1	*2.6	60-140	20	20
1,2-DICHLOROPROPANE	0	2100	2100	1730	49.9	82	*2.4	60-140	*190	20
TRANS-1,3-DICHLOROPROPENE	0	2100	2100	1890	2310	90	110	60-140	20	20
DIBROMOCHLOROMETHANE	0	2100	2100	1720	2140	82	102	60-140	*22	20
TRICHLOROFLUOROMETHANE	0	2100	2100	1890	2180	90	104	60-140	14	20
VINYL ACETATE	0	2100	2100	1960	55.6	93	*2.6	60-140	*190	20
VINYL CHLORIDE	0	2100	2100	1730	2070	82	98	60-140	18	20
1,1,1-TRICHLOROETHANE	0	2100	2100	1770	2060	84	98	60-140	15	20
1,1,2,2-TETRACHLOROETHANE	0	2100	2100	1660	1990	79	95	60-140	18	20
1,1,2-TRICHLOROETHANE	0	2100	2100	1690	2130	80	101	60-140	*23	20
1,1-DICHLOROETHANE	0	2100	2100	1830	52.6	87	*2.5	60-140	*190	20
1,1-DICHLOROETHENE	0	2100	2100	1820	50.8	86	*2.4	60-140	*190	20
TOTAL XYLENES	0	6300	6300	128	159	* 2.0	*2.5	60-140	*21	20
CIS-1,3-DICHLOROPROPENE	0	2100	2100	1880	2320	90	110	60-140	*21	20

RPD = (ms rec - msd rec) / (ms rec + msd rec)/2] * 100

*** Out of Limits**

1

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3179-30	Z7734	10/20/98	6:17:00 PM	KRT	AQ	8260
WO3179-30MS	Z7751	10/21/98	6:15:00 PM	KRT	AQ	8260
WO3179-30MSD	Z7752	10/21/98	6:53:00 PM	KRT	AQ	8260

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
ETRACHLOROETHENE	0	50	50	61.5	64.5	123	129	60-140	4.7	20
HLOROBENZENE	0	50	50	62.2	66.8	124	134	60-140	7.1	20
CHLOROETHANE	0	50	50	63.3	66.8	127	134	60-140	5.3	20
HLOROFORM	0	50	50	54.8	59.0	110	118	60-140	7.4	20
HLOROMETHANE	0	50	50	57.2	56.5	114	113	60-140	1.2	20
CIS-1,3-DICHLOROPROPENE	0	50	50	65.2	69.8	130	140	60-140	6.7	20
IBROMOCHLOROMETHANE	0	50	50	66.7	71.8	133	*144	60-140	7.4	20
THYLBENZENE	0	50	50	67.3	71.2	135	*142	60-140	5.6	20
,1,1-TRICHLOROETHANE	0	50	50	57.9	60.7	116	121	60-140	4.7	20
STYRENE	0	50	50	68.3	73.6	137	*147	60-140	7.5	20
ROMOMETHANE	0	50	50	54.3	52.9	108	106	60-140	2.5	20
ETRAHYDROFURAN	0	50	50	47.0	58.8	94	118	60-140	*22	20
TOLUENE	0	50	50	64.3	69.0	129	138	60-140	7.1	20
OTAL 1,2-DICHLOROETHENE	0	100	100	120	127	120	127	60-140	5.9	20
OTAL XYLENES	0	150	150	202	218	135	*145	60-140	7.2	20
TRANS-1,3-DICHLOROPROPENE	0	50	50	63.6	69.6	127	139	60-140	8.9	20
TRICHLOROETHENE	0	50	50	60.9	64.8	122	130	60-140	6.3	20
RICHLOROFLUOROMETHANE	0	50	50	59.2	61.3	118	122	60-140	3.4	20
INYL ACETATE	0	50	50	50.6	58.4	101	117	60-140	14	20
METHYLENE CHLORIDE	2.99	50	50	58.1	62.1	110	118	60-140	7.0	20
4-DICHLOROBENZENE	0	50	50	65.5	70.5	131	*141	60-140	7.3	20
INYL CHLORIDE	0	50	50	60.1	63.2	120	126	60-140	5.1	20
1,1,2,2-TETRACHLOROETHANE	0	50	50	54.9	59.5	110	119	60-140	8.0	20
1,2-TRICHLOROETHANE	0	50	50	58.0	61.9	116	124	60-140	6.4	20
1-DICHLOROETHANE	0	50	50	57.4	61.8	115	124	60-140	7.4	20
,1-DICHLOROETHENE	0	50	50	58.9	61.2	118	122	60-140	3.8	20
1,2-DICHLOROBENZENE	0	50	50	67.8	73.1	136	*146	60-140	7.5	20
2-DICHLOROETHANE	0	50	50	57.4	63.8	115	128	60-140	10	20
ARBON TETRACHLORIDE	0	50	50	65.9	70.1	132	140	60-140	6.2	20
1,3-DICHLOROBENZENE	0	50	50	66.2	71.6	132	*143	60-140	7.9	20
ARBON DISULFIDE	0	50	50	67.8	62.7	136	125	60-140	7.9	20
BUTANONE	2.89	50	50	44.9	51.3	84	97	60-140	14	20
2-CHLOROETHYLVINYLETHER	0	50	50	2.13	2.85	*4.3	*5.7	60-140	*29	20
-HEXANONE	0	50	50	47.6	53.7	95	107	60-140	12	20
METHYL-2-PENTANONE	0	50	50	49.4	54.7	99	109	60-140	10	20
CETONE	7.56	50	50	42.0	46.7	69	78	60-140	13	20
BENZENE	0	50	50	64.5	68.9	129	138	60-140	6.6	20
ROMODICHLOROMETHANE	0	50	50	61.1	66.4	122	133	60-140	8.2	20
ROMOFORM	0	50	50	61.6	66.4	123	133	60-140	7.3	20
1,2-DICHLOROPROPANE	0	50	50	61.1	64.5	122	129	60-140	5.4	20

PD = (ms rec - msd rec) / (ms rec + msd rec)/2] * 100

* Out of Limits

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: SBLK;102298
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 100
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SBLK;102298	SL	-	-	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<330	ug/Kg	1.0	330	330
BIS(2-CHLOROETHYL)ETHER	<330	ug/Kg	1.0	330	330
2-CHLOROPHENOL	<330	ug/Kg	1.0	330	330
1,3-DICHLOROBENZENE	<330	ug/Kg	1.0	330	330
1,4-DICHLOROBENZENE	<330	ug/Kg	1.0	330	330
1,2-DICHLOROBENZENE	<330	ug/Kg	1.0	330	330
2-METHYLPHENOL	<330	ug/Kg	1.0	330	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<330	ug/Kg	1.0	330	330
4-METHYLPHENOL	<330	ug/Kg	1.0	330	330
N-NITROSO-DI-N-PROPYLAMINE	<330	ug/Kg	1.0	330	330
HEXACHLOROETHANE	<330	ug/Kg	1.0	330	330
NITROBENZENE	<330	ug/Kg	1.0	330	330
ISOPHORONE	<330	ug/Kg	1.0	330	330
2-NITROPHENOL	<330	ug/Kg	1.0	330	330
2,4-DIMETHYLPHENOL	<330	ug/Kg	1.0	330	330
BIS(2-CHLOROETHOXY)METHANE	<330	ug/Kg	1.0	330	330
2,4-DICHLOROPHENOL	<330	ug/Kg	1.0	330	330
1,2,4-TRICHLOROBENZENE	<330	ug/Kg	1.0	330	330
NAPHTHALENE	<330	ug/Kg	1.0	330	330
4-CHLOROANILINE	<330	ug/Kg	1.0	330	330
HEXACHLOROBUTADIENE	<330	ug/Kg	1.0	330	330
4-CHLORO-3-METHYLPHENOL	<330	ug/Kg	1.0	330	330
2-METHYLNAPHTHALENE	<330	ug/Kg	1.0	330	330
HEXACHLOROCYCLOPENTADIEN	<330	ug/Kg	1.0	330	330
2,4,6-TRICHLOROPHENOL	<330	ug/Kg	1.0	330	330
2,4,5-TRICHLOROPHENOL	<820	ug/Kg	1.0	820	820
2-CHLORONAPHTHALENE	<330	ug/Kg	1.0	330	330
2-NITROANILINE	<820	ug/Kg	1.0	820	820
DIMETHYL PHTHALATE	<330	ug/Kg	1.0	330	330
ACENAPHTHYLENE	<330	ug/Kg	1.0	330	330
2,6-DINITROTOLUENE	<330	ug/Kg	1.0	330	330
3-NITROANILINE	<820	ug/Kg	1.0	820	820
ACENAPHTHENE	<330	ug/Kg	1.0	330	330

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: SBLK;102298
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 100
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SBLK;102298	SL	-	-	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<820	ug/Kg	1.0	820	820
4-NITROPHENOL	<820	ug/Kg	1.0	820	820
DIBENZOFURAN	<330	ug/Kg	1.0	330	330
2,4-DINITROTOLUENE	<330	ug/Kg	1.0	330	330
DIETHYLPHTHALATE	<330	ug/Kg	1.0	330	330
4-CHLOROPHENYL-PHENYLETHE	<330	ug/Kg	1.0	330	330
FLUORENE	<330	ug/Kg	1.0	330	330
4-NITROANILINE	<820	ug/Kg	1.0	820	820
4,6-DINITRO-2-METHYLPHENOL	<820	ug/Kg	1.0	820	820
N-NITROSODIPHENYLAMINE	<330	ug/Kg	1.0	330	330
4-BROMOPHENYL-PHENYLETHER	<330	ug/Kg	1.0	330	330
HEXACHLOROBENZENE	<330	ug/Kg	1.0	330	330
PENTACHLOROPHENOL	<820	ug/Kg	1.0	820	820
PHENANTHRENE	<330	ug/Kg	1.0	330	330
ANTHRACENE	<330	ug/Kg	1.0	330	330
CARBAZOLE	<330	ug/Kg	1.0	330	330
DI-N-BUTYLPHTHALATE	<330	ug/Kg	1.0	330	330
FLUORANTHENE	<330	ug/Kg	1.0	330	330
PYRENE	<330	ug/Kg	1.0	330	330
BUTYLBENZYLPHTHALATE	<330	ug/Kg	1.0	330	330
3,3'-DICHLOROBENZIDINE	<330	ug/Kg	1.0	330	330
BENZO[A]ANTHRACENE	<330	ug/Kg	1.0	330	330
CHRYSENE	<330	ug/Kg	1.0	330	330
BIS(2-ETHYLHEXYL)PHTHALATE	<330	ug/Kg	1.0	330	330
DI-N-OCTYLPHTHALATE	<330	ug/Kg	1.0	330	330
BENZO[B]FLUORANTHENE	<330	ug/Kg	1.0	330	330
BENZO[K]FLUORANTHENE	<330	ug/Kg	1.0	330	330
BENZO[A]PYRENE	<330	ug/Kg	1.0	330	330
INDENO[1,2,3-CD]PYRENE	<330	ug/Kg	1.0	330	330
DIBENZ[A,H]ANTHRACENE	<330	ug/Kg	1.0	330	330
BENZO[G,H,I]PERYLENE	<330	ug/Kg	1.0	330	330
2-FLUOROPHENOL	62	%	1.0		
PHENOL-D5	57	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET

MANCHESTER, NH 03101-1501

Proj. ID:

Lab Number: SBLK;102298
Report Date: 10/28/98
PO No. : 10971-028-001-00096-00
Project: CHARLESTON,RI SITE 8
% Solids: 100
Method: EPA 8270B
Date Analyzed: 10/23/98

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SBLK;102298	SL	-	-	10/22/98	ESE	SW3540	SW

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	52	%	1.0		
2-FLUOROBIPHENYL	67	%	1.0		
2,4,6-TRIBROMOPHENOL	56	%	1.0		
TERPHENYL-D14	54	%	1.0		

Report Notes:

Katahdin Analytical Services
8270 LCS Recovery Sheet

Lab File: X0068 **Sample ID: LCS;102298** **Date Run: 10/23/98**

Analyst: SW **Time Injected 1:35:00 PM** **Matrix: SL**

Compound Name	Spike Amt (ug/Kg)	Result (ug/Kg)	Rec (%)	Limits (%)
CHRYSENE	1667	1540	93	60-140
DI-N-BUTYLPHTHALATE	1667	1340	81	60-140
DI-N-OCTYLPHTHALATE	1667	1650	99	60-140
DIBENZ[A,H]ANTHRACENE	1667	1330	80	60-140
DIBENZOFURAN	1667	1260	76	60-140
DIETHYLPHTHALATE	1667	1300	78	60-140
DIMETHYL PHTHALATE	1667	1260	76	60-140
FLUORANTHENE	1667	1600	96	60-140
FLUORENE	1667	1430	86	60-140
HEXACHLOROBENZENE	1667	1370	82	60-140
HEXACHLOROBUTADIENE	1667	1280	76	60-140
HEXACHLOROCYCLOPENTADIENE	1667	430	*26	60-140
HEXACHLOROETHANE	1667	1130	68	60-140
INDENO[1,2,3-CD]PYRENE	1667	1220	73	60-140
ISOPHORONE	1667	1170	70	60-140
N-NITROSO-DI-N-PROPYLAMINE	1667	1120	67	60-140
N-NITROSODIPHENYLAMINE	1667	1290	78	60-140
NAPHTHALENE	1667	1310	79	60-140
NITROBENZENE	1667	1220	74	60-140
PENTACHLOROPHENOL	3333	3150	94	60-140
PHENANTHRENE	1667	1480	89	60-140
PHENOL	3333	2520	76	60-140
PYRENE	1667	1430	86	60-140

*** Out of Limits**

Katahdin Analytical Services
8270 LCS Recovery Sheet

Lab File: X0068 **Sample ID: LCS;102298** **Date Run: 10/23/98**

Analyst: SW **Time Injected 1:35:00 PM** **Matrix: SL**

Compound Name	Spike Amt (ug/Kg)	Result (ug/Kg)	Rec (%)	Limits (%)
1,2,4-TRICHLOROBENZENE	1667	1220	73	60-140
1,2-DICHLOROBENZENE	1667	1150	69	60-140
1,3-DICHLOROBENZENE	1667	1170	70	60-140
1,4-DICHLOROBENZENE	1667	1100	66	60-140
2,2'-OXYBIS(1-CHLOROPROPANE)	1667	1230	74	60-140
2,4,5-TRICHLOROPHENOL	3333	2360	71	60-140
2,4,6-TRICHLOROPHENOL	3333	2400	72	60-140
2,4-DICHLOROPHENOL	3333	2470	74	60-140
2,4-DIMETHYLPHENOL	3333	1930	*58	60-140
2,4-DINITROPHENOL	3333	2590	78	60-140
2,4-DINITROTOLUENE	1667	1340	81	60-140
2,6-DINITROTOLUENE	1667	1250	75	60-140
2-CHLORONAPHTHALENE	1667	1200	72	60-140
2-CHLOROPHENOL	3333	2200	66	60-140
2-METHYLNAPHTHALENE	1667	948	*57	60-140
2-METHYLPHENOL	3333	2200	66	60-140
2-NITROANILINE	1667	1310	79	60-140
2-NITROPHENOL	3333	2360	71	60-140
3,3'-DICHLOROBENZIDINE	1667	1110	66	60-140
3-NITROANILINE	1667	1390	84	60-140
4,6-DINITRO-2-METHYLPHENOL	3333	2900	87	60-140
4-BROMOPHENYL-PHENYLETHER	1667	1270	76	60-140
4-CHLORO-3-METHYLPHENOL	3333	2330	70	60-140
4-CHLOROANILINE	1667	1260	76	60-140
4-CHLOROPHENYL-PHENYLETHER	1667	1290	77	60-140
4-METHYLPHENOL	1667	2140	128	60-140
4-NITROANILINE	1667	1430	86	60-140
4-NITROPHENOL	3333	3150	95	60-140
ACENAPHTHENE	1667	1370	82	60-140
ACENAPHTHYLENE	1667	1270	76	60-140
ANTHRACENE	1667	1600	96	60-140
BENZO[A]ANTHRACENE	1667	1480	89	60-140
BENZO[A]PYRENE	1667	1450	87	60-140
BENZO[B]FLUORANTHENE	1667	1620	97	60-140
BENZO[G,H,I]PERYLENE	1667	1300	78	60-140
BENZO[K]FLUORANTHENE	1667	1490	90	60-140
BIS(2-CHLOROETHOXY)METHANE	1667	1200	72	60-140
BIS(2-CHLOROETHYL)ETHER	1667	1300	78	60-140
BIS(2-ETHYLHEXYL)PHTHALATE	1667	1340	81	60-140
BUTYLBENZYLPHTHALATE	1667	1320	80	60-140
CARBAZOLE	1667	1510	90	60-140

*** Out of Limits** *1*

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3179-4	X0069	10/23/98	2:17:00 PM	SW	SL	8270
WO3179-4MS	X0074	10/23/98	5:49:00 PM	SW	SL	8270
WO3179-4MSD	X0075	10/23/98	6:30:00 PM	SW	SL	8270

Compound Name	Native (ug/Kg)	MS Spk Amount (ug/Kg)	MSD Spk Amount (ug/Kg)	MS Result (ug/Kg)	MSD Result (ug/Kg)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
-CHLOROPHENYL-PHENYLETHER	0	1815	1815	1400	1420	77	78	60-140	1.2	50
ENZO[A]ANTHRACENE	0	1815	1815	1700	1530	93	84	60-140	10	50
3,3'-DICHLOROBENZIDINE	0	1815	1815	1380	1390	76	77	60-140	1.1	50
-NITROANILINE	0	1815	1815	1490	1440	82	79	60-140	3.5	50
6-DINITRO-2-METHYLPHENOL	0	3630	3630	2220	2210	61	61	60-140	0.7	50
-BROMOPHENYL-PHENYLETHER	0	1815	1815	1480	1220	81	67	60-140	19	50
2-NITROANILINE	0	1815	1815	1480	1400	81	77	60-140	4.9	50
-CHLOROANILINE	0	1815	1815	1320	1220	73	67	60-140	7.9	50
-METHYLPHENOL	0	3630	3630	2410	2340	66	64	60-140	2.9	50
4-METHYLPHENOL	0	3630	3630	2360	2280	65	63	60-140	3.4	50
-NITROANILINE	0	1815	1815	1540	1450	84	80	60-140	5.8	50
-NITROPHENOL	0	3630	3630	3520	3220	97	89	60-140	8.9	50
ACENAPHTHENE	0	1815	1815	1540	1500	85	82	60-140	2.8	50
ACENAPHTHYLENE	0	1815	1815	1430	1390	79	77	60-140	2.6	50
2,4-TRICHLOROBENZENE	0	1815	1815	1280	1240	70	68	60-140	3.1	50
-CHLORO-3-METHYLPHENOL	0	3630	3630	2480	2370	68	65	60-140	4.8	50
2,4-DIMETHYLPHENOL	0	3630	3630	2320	2160	64	60	60-140	7.0	50
2-DICHLOROBENZENE	0	1815	1815	1220	1200	67	66	60-140	1.1	50
3-DICHLOROBENZENE	0	1815	1815	1200	1180	66	65	60-140	1.2	50
1,4-DICHLOROBENZENE	0	1815	1815	1190	1160	66	64	60-140	2.8	50
2'-OXYBIS(1-CHLOROPROPANE)	0	1815	1815	1370	1320	76	73	60-140	3.6	50
4,5-TRICHLOROPHENOL	0	3630	3630	3080	2940	85	81	60-140	4.6	50
2-NITROPHENOL	0	3630	3630	2570	2460	71	68	60-140	4.4	50
2,4-DICHLOROPHENOL	0	3630	3630	2700	2580	74	71	60-140	4.2	50
ENZO[A]PYRENE	0	1815	1815	1670	1490	92	82	60-140	11	50
4-DINITROPHENOL	0	3630	3630	1360	1350	*38	*37	60-140	0.7	50
2,4-DINITROTOLUENE	0	1815	1815	1470	1380	81	76	60-140	6.1	50
6-DINITROTOLUENE	0	1815	1815	1420	1340	78	74	60-140	5.9	50
CHLORONAPHTHALENE	0	1815	1815	1360	1360	75	75	60-140	0.6	50
2-CHLOROPHENOL	0	3630	3630	2420	2370	67	65	60-140	2.0	50
2-METHYLNAPHTHALENE	0	1815	1815	1610	1520	89	84	60-140	5.8	50
4,6-TRICHLOROPHENOL	0	3630	3630	2750	2690	76	74	60-140	2.2	50
-NITROSO-DI-N-PROPYLAMINE	0	1815	1815	1210	1170	66	64	60-140	3.0	50
ANTHRACENE	0	1815	1815	1780	1600	98	88	60-140	10	50
EXACHLOROBENZENE	0	1815	1815	1420	1270	78	70	60-140	12	50
EXACHLOROBUTADIENE	0	1815	1815	1280	1240	70	68	60-140	3.4	50
HEXACHLOROCYCLOPENTADIENE	0	1815	1815	0	0	*0	*0	60-140		50
EXACHLOROETHANE	0	1815	1815	1150	1130	63	62	60-140	1.5	50
UORANTHENE	0	1815	1815	1880	1630	104	90	60-140	14	50
ISOPHORONE	0	1815	1815	1250	1160	69	64	60-140	7.2	50
DIMETHYL PHTHALATE	0	1815	1815	1390	1360	77	75	60-140	1.9	50
-NITROSODIPHENYLAMINE	0	1815	1815	1540	1440	85	79	60-140	7.3	50
-APHTHALENE	0	1815	1815	1380	1360	76	75	60-140	1.8	50
NITROBENZENE	0	1815	1815	1280	1290	71	71	60-140	0.2	50

PD = (ms rec - msd rec) / (ms rec + msd rec)/2] * 100 *** Out of Limits**

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WO3179-4	X0069	10/23/98	2:17:00 PM	SW	SL	8270
WO3179-4MS	X0074	10/23/98	5:49:00 PM	SW	SL	8270
WO3179-4MSD	X0075	10/23/98	6:30:00 PM	SW	SL	8270

Compound Name	Native (ug/Kg)	MS Spk Amount (ug/Kg)	MSD Spk Amount (ug/Kg)	MS Result (ug/Kg)	MSD Result (ug/Kg)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
PENTACHLOROPHENOL	0	3630	3630	3480	3060	96	84	60-140	13	50
PHENANTHRENE	0	1815	1815	1680	1540	92	85	60-140	8.2	50
PHENOL	0	3630	3630	2580	2660	71	73	60-140	3.0	50
INDENO[1,2,3-CD]PYRENE	0	1815	1815	1570	1380	87	76	60-140	13	50
CARBAZOLE	0	1815	1815	1700	1560	94	86	60-140	8.7	50
BENZO[B]FLUORANTHENE	0	1815	1815	1720	1600	95	88	60-140	7.2	50
BENZO[G,H,I]PERYLENE	0	1815	1815	1280	1140	70	63	60-140	11	50
BENZO[K]FLUORANTHENE	0	1815	1815	1780	1630	98	90	60-140	9.1	50
BIS(2-CHLOROETHOXY)METHANE	0	1815	1815	1320	1210	72	66	60-140	8.7	50
BIS(2-CHLOROETHYL)ETHER	0	1815	1815	1320	1360	73	75	60-140	3.0	50
FLUORENE	0	1815	1815	1570	1540	86	85	60-140	1.7	50
BUTYLBENZYLPHTHALATE	0	1815	1815	1450	1340	80	74	60-140	8.4	50
PYRENE	0	1815	1815	1560	1400	86	77	60-140	11	50
CHRYSENE	0	1815	1815	1630	1580	90	87	60-140	3.1	50
DI-N-BUTYLPHTHALATE	0	1815	1815	1560	1350	86	75	60-140	14	50
DI-N-OCTYLPHTHALATE	0	1815	1815	1860	1770	102	97	60-140	5.0	50
DIBENZ[A,H]ANTHRACENE	0	1815	1815	1420	1250	78	69	60-140	12	50
DIBENZOFURAN	0	1815	1815	1420	1340	78	74	60-140	5.7	50
DIETHYLPHTHALATE	0	1815	1815	1430	1410	79	78	60-140	1.8	50
BIS(2-ETHYLHEXYL)PHTHALATE	0	1815	1815	1510	1380	83	76	60-140	8.6	50

RPD = (ms rec - msd rec) / (ms rec + msd rec)/2] * 100

*** Out of Limits**

The State of New Hampshire
Department of Environmental Services

CERTIFICATE OF APPROVAL
Drinking Water Analysis

Issued to
Katahdin Analytical Services

Located at
340 County Road, #5, Westbrook, ME

Under the provisions of the Regulations in Env-C300 for the following analyses:

FULL CERTIFICATION: Volatile Organics, Trihalomethanes, Nitrite-N, Thallium, Boron, Manganese, Molybdenum, Zinc, Residual Free Chlorine, Mercury, Nitrate-N, Beryllium, Total Coliform by MF, Coliform (Compliance Testing), Orthophosphate, Vinyl Chloride, Turbidity, Total Filterable Residue, Calcium Hardness, pH, Alkalinity, Fluoride, Cadmium, TOC, Sulfate, Sodium, Antimony, Copper, Selenium, Lead, Chromium, Total Cyanide, Nickel, Barium, Arsenic.

PROVISIONAL CERTIFICATION: Fecal Coliform by MF.

REPLACES CERTIFICATE #: 200198-A

CERTIFICATE NUMBER: 200198-C

DATE OF ISSUE: July 07, 1998

EXPIRATION DATE: April 02, 1999

Charles H. Roger
Certifying Officer

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W03179

PAGE: 1 OF 3

COOLER: 1 OF 3

COC#
SDG#
DATE / TIME RECEIVED: 10/16/98 1000
DELIVERED BY: Fed X
RECEIVED BY: L.P
LIMS ENTRY BY: KS
LIMS REVIEW BY / PM: L. Pepin

CLIENT: Roy F. Weston

PROJECT: Charleston, RI Site 8

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	✓				
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	✓				
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	✓				
4. CHAIN OF CUSTODY MATCHES SAMPLES?	✓				
5. TEMPERATURE BLANKS PRESENT?	✓			TEMP BLANK TEMP (°C)= 2.3°C	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	✓			COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	✓				
8. TRIP BLANK PRESENT IN THIS COOLER	✓				
9. PROPER SAMPLE CONTAINERS AND VOLUME?	✓				
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	✓				
11. SAMPLES PROPERLY PRESERVED[1]?	✓				
12. CORRECTIVE ACTION REPORT FILED?		✓	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]: 10/19/98 Per Mr. DelloRusso - Sample ID "H004-1098" which should not have listed analysis for total lead on chain of custody. No sample was taken. We received no container for analysis. Delete total Pb for "H004-1098".
L Pepin.

[1] Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

0000175

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W03179

PAGE: 2 OF 3

COOLER: 2 OF 3

COC#
SDG#
DATE / TIME RECEIVED: 10/16/98 1000
DELIVERED BY: Fed X
RECEIVED BY: L.P.
LIMS ENTRY BY: K.S.
LIMS REVIEW BY / PM: L. Pepin

CLIENT: Roy F. Weston

PROJECT: Charleston, RI Site 8

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	✓				
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	✓				
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	✓				
4. CHAIN OF CUSTODY MATCHES SAMPLES?	✓				
5. TEMPERATURE BLANKS PRESENT?	✓			TEMP BLANK TEMP (°C)= 2.9 °C	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	✓			COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	✓				
8. TRIP BLANK PRESENT IN THIS COOLER		✓			
9. PROPER SAMPLE CONTAINERS AND VOLUME?	✓				
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	✓				
11. SAMPLES PROPERLY PRESERVED[1]?	✓				
12. CORRECTIVE ACTION REPORT FILED?		✓	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC (ACOE) AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

[1] Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W03179

PAGE: 3 OF 3

COOLER: 3 OF 3

COC#
SDG#
DATE / TIME RECEIVED: 10/16/98 1000
DELIVERED BY: Fed X
RECEIVED BY: LP
LIMS ENTRY BY: KS
LIMS REVIEW BY / PM: L. Pepin

CLIENT: Roy F. Weston

PROJECT: Charleston, RI Site 8

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 2.3°C	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

0000177

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

Client: Roy F. Weston, Inc
Contact: Vinnie DelloRusso
Phone #: (603) 656-5467
Fax #: (603) 656-5401

Address: One Wall St.
City: Manchester
State: NH
Zip Code: 03101-1501

Purchase Order #:
Proj. Name / No.: Charlestown, RI - Site 8
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Vincent DelloRusso / [signature]
Copies To:

LAB USE ONLY
WORK ORDER #: W03179
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 8260B w/MeOH 40ml (5035)	SVOC 8270C 4oz unpres. (5035)	TPH GRO w/MeOH 5035/8015 MOD 2oz	Total Lead 6010 2oz unpres. (3050)	SPLP Lead 1312 4oz unpres.	Air Permeability Capped Tube D4525	Water Permeability Capped Tube D5085	Grain Size D421/422 4oz unpres.	~~Simulated Distillation~~ Moisture Content 2oz	Field Screening PID PPM
S001-1098-12/13	10/12/98/1050	S	→	4	+	1	1	1				1	0.3
S101-1098-14.3/15.2	10/12/98/1100	S	→	1								1	652
S001-1098-14.3/15.2	10/12/98/1100	S	→	2	1	1	1	+				1	652
~~S001-1098-14.3/15.2~~	~~10/12/98/~~	~~S~~	~~→~~										
S002-1098-8/9.6	10/12/98/1250	S	→	1	+	1	1	1				1	12
S002-1098-12.7/13.6	10/12/98/1305	S	→	1	1	1	1	+				1	571
S003-1098-8/9	10/12/98/1330	S	→	1	+	1	1					1	1.5
S003-1098-12.5/14	10/12/98/1345	S	→	1	1	1	1	1				1	502
DUP S103-1098-12.5/14	10/12/98/1345	S	→	+	1	1	1	1				1	502
S004-1098-4.7/5.5	10/12/98/1410	S	→						1				1.5
S004-1098-5.5/6.3	10/12/98/1410	S	→							1			1.5
S004-1098-9/10	10/12/98/1420	S	→								1		3.3
S004-1098-8/10	10/12/98/1420	S	→	1		1	1				+	1	3.3
S004-1098-12.3/13.3	10/12/98/1440	S	→	1	1	1	1				+	1	100
S004-1098-12/13	10/12/98/1440	S	→								1		100
S006-1098-13.5/14	10/12/98/1530	S	→	1		1	1					1	0.0

COMMENTS
Temp. Blank in Cooler * USE Sample S001-1098-12/13 For MS/MSD

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	10/15/98 5pm	FEDEX			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[signature] 10/16/98 1000			

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

Client: Roy F. Weston, Inc
Contact: Vinnie DelloRusso
Phone #: (603) 656-5467
Fax #: (603) 656-5407

Address: One Wall St.
City: Manchester
State: NH
Zip Code: 03101-1501

Purchase Order #:
Proj. Name / No.: Charlestown, RI - Site 8
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Vincent DelloRusso / Vincent DelloRusso
Copies To:

LAB USE ONLY
WORK ORDER #: W03179
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 8260B 40 ml w/ MeOH (5035/)	SVOC 8270C 4 oz unpres. (5040/)	TPH GRO 8015 Mod 2 oz w/ MeOH (5035/)	Total Lead 6010 2 oz unpres (5050/)	SpLp Lead 1312 4 oz unpres.	Air Permeability D4525 Capped Tube	Water Permeability D5084 Capped Tube	Grain Size D421/422 4 oz unpres.	Moisture Content 2 oz Unpres.	Field Genuine Pb [illegible]
	S007-1098-4.5/5.5	10/12/98/1730	S	→	1		1	1					1	189
	S005-1098-9.5/11	10/13/98/925	S	→							1			0
	S005-1098-8/9.5	10/13/98/925	S	→						1				0.0
	S005-1098-14/15	10/13/98/950	S	→								1		5
	S005-1098-12.5/13	10/13/98/940	S	→								1		0.0
	S005-1098-15/16	10/13/98/945	S	→	1		1	1					1	5
	TB-1	10/12/98/0900	MeOH	→	2		2				Lab Prepared Sample			
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: TPH GRO Trip Blank Sample is in 2x40ml w/ MeOH
Temp Blank in Cooler

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Vincent DelloRusso	10/15/98 5pm	Fedex			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		L Repin 10/16/98 1000			

FORMSOURCE INC. ☎ (207) 782-3311
FORM # CHN-OF-CSTDY

ORIGINAL

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

Client: Roy F. WESTON, Inc.
Contact: Vinnie DelloRusso
Phone #: (603) 656-5467
Fax #: (603) 656-5401
Address: One Wall St.
City: Manchester
State: NH
Zip Code: 03101-1501
Purchase Order #:
Proj. Name / No.: ED77 Charlestown, RI - SITE 8
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Vincent DelloRusso / Vincent DelloRusso
Copies To:

LAB USE ONLY
WORK ORDER #:
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 8260B HCl	Total Lead 6010 125ml HNO3	Simulated D2887 Distillation, unpres.		Field Screening PID ppm					
				Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐
H001-1098	10/13/98/1530	W	→	3	1			286					
H101-1098	10/13/98/1530	W	→	3	1			286					
H201-1098	10/13/98/1339	W	→	3	1			0.0					
M013-1098	10/13/98/1355	LNAPL	→			1		Very High					
H003-1098	10/13/98/1605	W	→	3	1			166					
H004-1098	10/13/98/1610	W	→	3	1			2					
H005-1098	10/13/98/1647	W	→	3	1			105					
H006A1098	10/13/98/1627	W	→	3	1			0.0					
H007-1098	10/13/98/1633	W	→	3	1			61					
H008-1098	10/13/98/1612	W	→	3	1			428					
H009-1098	10/13/98/1548	W	→	6	2			0.0 MS/MSD sample					
H010-1098	10/13/98/1638	W	→	3	1			213					
TB-2	10/13/98/1300	W	→	3				Lab Prepared Sample					
	/												
	/												
	/												

COMMENTS
Temp. Blank in Cooler

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
DelloRusso	10/15/98 5pm	FEDEX			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[illegible] 10/16/98 1000			

ORIGINAL

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WO-3179

Project Manager: Lil Pepin
ORDER DATE: 10/16/98
PHONE: 603/656-5400
FAX: 603/656-5401
DUE: 30 OCT

REPORT TO: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: Vincent DelloRuss
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5400
PO: 10971-028-001-00096-00

PROJECT: CHARLESTON,RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 15 NOV

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WO3179-1	S001-1098-12/13	12 OCT 1050	16 OCT	SL
	WO3179-2	S002-1098-8/9.6	12 OCT 1250		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Gasoline Range Organics	SW8015M	2	55.00	110.00
Lead, Total	6010	2	25.00	50.00
Elements Sample Preparation		2	0.00	0.00
Solids-Total Residue (TS)	CLP/CIP SO	2	0.00	0.00
Volatile Organics by EPA 8260	EPA 8260	2	120.00	240.00
TOTALS		2	200.00	400.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WO3179-3	S101-1098-14.3/15.2	12 OCT 1100	16 OCT	SL

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	120.00	120.00
Solids-Total Residue (TS)	CLP/CIP SO	1	0.00	0.00
TOTALS		1	120.00	120.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
3	WO3179-4	S001-1098-14.3/15.2	12 OCT 1100	16 OCT	SL
	WO3179-5	S002-1098-12.7/13.6	12 OCT 1305		
	WO3179-6	S004-1098-12.3/13.3	12 OCT 1440		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Solids-Total Residue (TS)	CLP/CIP S	3	0.00	0.00
TCL Semivolatile Organics by USEPA 8270B	EPA 8270B	3	225.00	675.00
Lead, Total	6010	3	25.00	75.00
Gasoline Range Organics	SW8015M	3	55.00	165.00
Volatile Organics by EPA 8260	EPA 8260	3	120.00	360.00
TOTALS		3	425.00	1275.00

LABORATORY ORDER CONTINUED ON PAGE 2

000018 P 10/19/98

ORDER NO WO-3179

Project Manager: Lil Pepin
ORDER DATE: 10/16/98
PHONE: 603/656-5400
FAX: 603/656-5401
DUE: 30 OCT

REPORT TO: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: Vincent DelloRuss
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5400
PO: 10971-028-001-00096-00

PROJECT: CHARLESTON,RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 15 NOV

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
4	WO3179-7	S003-1098-8/9	12 OCT 1330	16 OCT	SL
	WO3179-8	S004-1098-8/10	12 OCT 1420		
	WO3179-9	S006-1098-13.5/14	12 OCT 1530		
	WO3179-10	S007-1098-4.5/5.5	12 OCT 1730		
	WO3179-11	S005-1098-15/16	13 OCT 0945		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Solids-Total Residue (TS)	CLP/CIP SO	5	0.00	0.00
Gasoline Range Organics	SW8015M	5	55.00	275.00
Lead, Total	6010	5	25.00	125.00
Volatile Organics by EPA 8260	EPA 8260	5	120.00	600.00
TOTALS		5	200.00	1000.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
5	WO3179-12	S003-1098-12.5/14	12 OCT 1345	16 OCT	SL

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Solids-Total Residue (TS)	CLP/CIP SO	1	0.00	0.00
TCL Semivolatile Organics by USEPA 8270B	EPA 8270B	1	225.00	225.00
Gasoline Range Organics	SW8015M	1	55.00	55.00
Lead, Total	6010	1	25.00	25.00
Volatile Organics by EPA 8260	EPA 8260	1	120.00	120.00
TOTALS		1	425.00	425.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECE VED	MATRIX
6	WO3179-13	S004-1098-4.7/5.5	12 OCT 1410	16 OCT	SL
	WO3179-14	S005-1098-8/9.5	13 OCT 0925		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Wet Lab Subcontract		2	165.00	330.00

LABORATORY ORDER CONTINUED ON PAGE 3

ORDER NO WO-3179

Project Manager: Lil Pepin
ORDER DATE: 10/16/98
PHONE: 603/656-5400
FAX: 603/656-5401
DUE: 30 OCT

REPORT TO: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: Vincent DelloRuss
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5400
PO: 10971-028-001-00096-00
PROJECT: CHARLESTON,RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 15 NOV

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
7	WO3179-15	S004-1098-5.5/6.3	12 OCT 1410	16 OCT	SL
	WO3179-16	S005-1098-9.5/11	13 OCT 0925		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Wet Lab Subcontract		2	220.00	440.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
8	WO3179-17	S004-1098-9/10	12 OCT 1420	16 OCT	SL
	WO3179-18	S004-1098-12/13	12 OCT 1440		
	WO3179-19	S005-1098-14/15	13 OCT 0950		
	WO3179-20	S005-1098-12.5/13	13 OCT 0940		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Wet Lab Subcontract		4	45.00	180.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
9	WO3179-21	TB-1	12 OCT 0900	16 OCT	SL

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Gasoline Range Organics	SW8015M	1	55.00	55.00
Volatile Organics by EPA 8260	EPA 8260	1	120.00	120.00
TOTALS		1	175.00	175.00

LABORATORY ORDER CONTINUED ON PAGE 4

ORDER NO WO-3179

Project Manager: Lil Pepin
ORDER DATE: 10/16/98
PHONE: 603/656-5400
FAX: 603/656-5401
DUE: 30 OCT

REPORT TO: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: Vincent DelloRuss
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5400
PO: 10971-028-001-00096-00

PROJECT: CHARLESTON,RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 15 NOV

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
10	WO3179-22	H001-1098	13 OCT 1530	16 OCT	AQ
	WO3179-23	H101-1098	13 OCT 1530		
	WO3179-24	H201-1098	13 OCT 1339		
	WO3179-25	H003-1098	13 OCT 1605		
	WO3179-26	H005-1098	13 OCT 1647		
	WO3179-27	H006A-1098	13 OCT 1627		
	WO3179-28	H007-1098	13 OCT 1633		
	WO3179-29	H008-1098	13 OCT 1612		
	WO3179-30	H009	13 OCT 1548		
	WO3179-31	H010-1098	13 OCT 1638		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Lead, Total	200.7/6010	10	25.00	250.00
Volatile Organics by EPA 8260	EPA 8260	10	120.00	1200.00
TOTALS		10	145.00	1450.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
11	WO3179-32	M013-1098	13 OCT 1355	16 OCT	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Wet Lab Subcontract		1	180.00	180.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
12	WO3179-33	H004-1098	13 OCT 1610	16 OCT	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	120.00	120.00

LABORATORY ORDER CONTINUED ON PAGE 5

ORDER NO WO-3179

Project Manager: Lil Pepin
ORDER DATE: 10/16/98
PHONE: 603/656-5400
FAX: 603/656-5401
DUE: 30 OCT

REPORT TO: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: Vincent DelloRuss
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5400
PO: 10971-028-001-00096-00
PROJECT: CHARLESTON,RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 15 NOV

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
13	WO3179-34	TB-2	13 OCT 1300	16 OCT	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	120.00	120.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
14	WO3179-35	S001-1098-12/13	12 OCT 1050	16 OCT	SL
	WO3179-36	S002-1098-8/9.6	12 OCT 1250		
	WO3179-37	S003-1098-12.5/14	12 OCT 1345		
	WO3179-38	S103-1098-12.5/14	12 OCT 1345		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
SPLP-Lead	6010	4	75.00	300.00
SPLP*EXTRACTION	1312	4	0.00	0.00
TOTALS		4	75.00	300.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
15	WO3179-39	S103-1098-12.5/14	12 OCT 1345	16 OCT	SL

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
TCL Semivolatile Organics by USEPA 8270B	EPA 8270B	1	225.00	225.00
Gasoline Range Organics	SW8015M	1	55.00	55.00
Lead, Total	6010	1	25.00	25.00
Solids-Total Residue (TS)	CLP/CIP SO	1	0.00	0.00
TOTALS		1	305.00	305.00

LABORATORY ORDER CONTINUED ON PAGE 6

ORDER NO WO-3179

Project Manager: Lil Pepin
ORDER DATE: 10/16/98
PHONE: 603/656-5400
FAX: 603/656-5401
DUE: 30 OCT

REPORT TO: Mr. Vincent DelloRusso
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

INVOICE: Vincent DelloRuss
ROY F. WESTON
ONE WALL STREET
MANCHESTER, NH 03101-1501

PHONE: 603/656-5400
PO: 10971-028-001-00096-00

PROJECT: CHARLESTON,RI SITE 8

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 15 NOV

ORDER NOTE: QC-II+
CHARLESTON,RI SITE 8
ARMY CORP

INVOICE: With Report

TOTAL ORDER AMOUNT $6,820.00
This is NOT an Invoice

KR/LP/WEST.LP(dw)
10-19Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

APPENDIX C-4

LNAPL SIMULATED DISTILLATION ANALYTICAL RESULTS

16840 Barker Springs #302
Houston, Texas 77084

(281) 578-2289
Fax: (281) 578-2295
villalanti@earthlink.net

Triton Analytics Corp.

Reference Laboratories

- Hydrocarbon
- Chemical
- Environmental

Dan Villalanti, *Pres.* • Phil Wadsworth, *Lab Director* • Calvin Blakley, *Mass Spec* • Joe Raia, *GC*

October 21, 1998

Laboratory Reference: TAC 1658

Ms. Lil Pepin
Katahdin Analytical Services
PO Box 720
Westbrook, ME 04098

Dear Ms. Pepin:

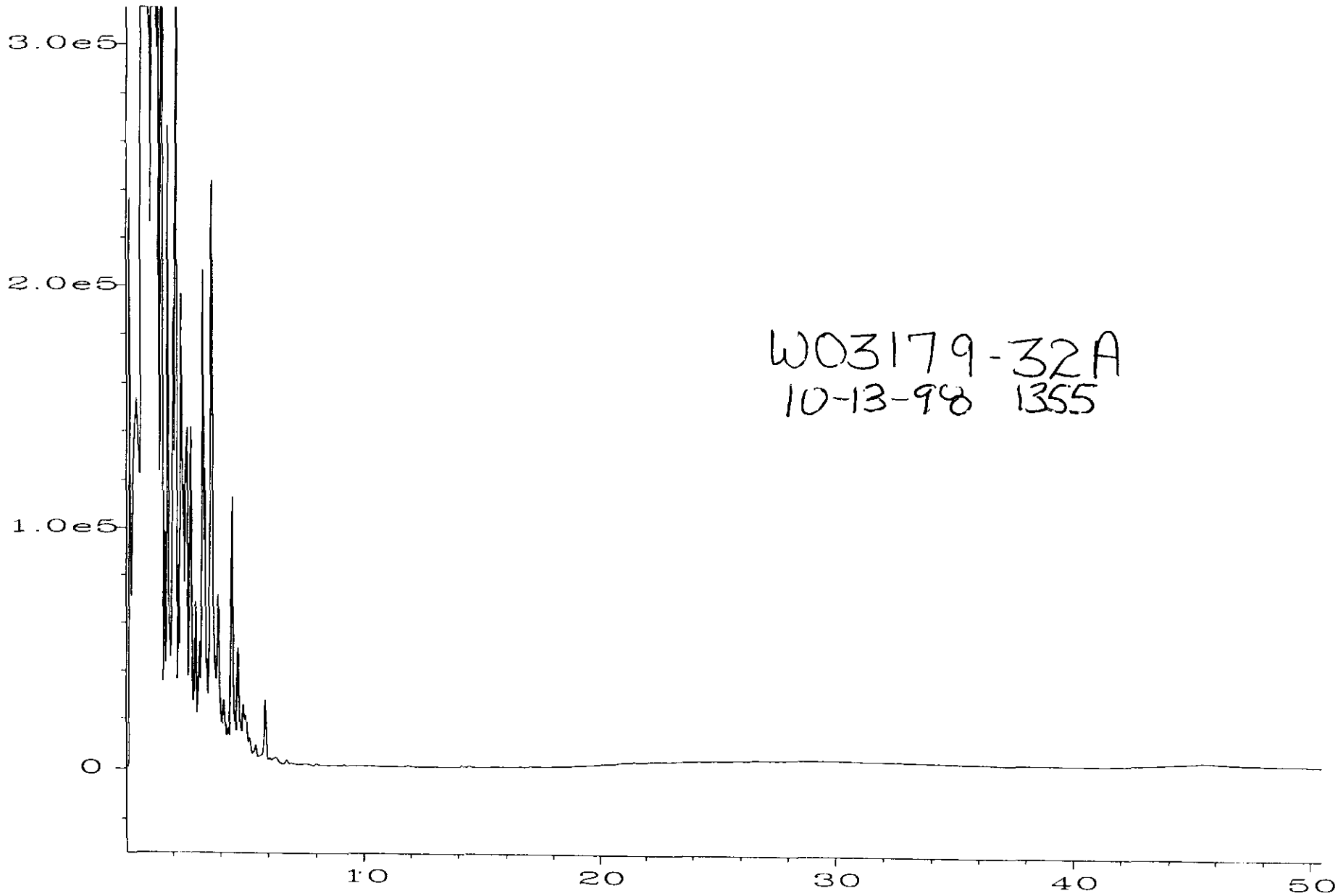
Confirming HTSD results sent to you via FAX this date, please find enclosed the chromatogram and tabulated data for your recent sample WO3179-32A, 10/13/98 1355.

I have also enclosed a copy of the last two Simulated Distillation papers that we presented at AIChE. If you have any questions or require additional information, please contact us.

Regards,

Dan C. Villalanti

Dan C. Villalanti
DCV/tll



Sig. 1 in C:\HPCHEM\3\DATA\1020A\003F0601.D

========== AC Software version M2.5 ==========
Simdis HT 750 Analyzer

Data File Name: C:\HPCHEM\3\DATA\1020A\003F0601.D
Instrument : 3 Vial : 3
Operator : Triton Analyt. Injection : 1
Acquired on : 20 Oct 98 06:37 PM Seq. line : 6
Processed on : 21 Oct 98 8:43 AM
Sample name : W03179-32A Sample Amt: 0.1912
Methodname : MHC30.MTH ISTD amt : 0.0000
Calc. Based On: ESTD Weight CS2: 9.7278
Sequencename : 1020A Cryogenic sequence

Blank used : C:\HPCHEM\3\DATA\1020A\085F0202.D
BP Calib. used: C:\HPCHEM\3\DATA\1020A\090F0101.D
Reference used: C:\HPCHEM\3\DATA\1020A\095F0301.D

Recovery(%) : 96.5 found, 100% recovery assumed
Resp. Factor : 1.160E-10 Threshold set : 100.0
IBP : 97 F Start Elution : 0.00
FBP : 1288 F End Elut. at : 45.00 Set

Analysis results : %Weight versus Boiling point

%	BP(F)	%	BP(F)	%	BP(F)	%	BP(F)
1	100	26	196	51	228	76	266
2	118	27	196	52	228	77	273
3	127	28	198	53	230	78	277
4	135	29	199	54	230	79	279
5	144	30	199	55	230	80	279
6	153	31	201	56	230	81	286
7	154	32	203	57	230	82	289
8	154	33	203	58	232	83	295
9	156	34	205	59	232	84	300
10	160	35	207	60	232	85	306
11	162	36	208	61	232	86	316
12	167	37	208	62	234	87	318
13	172	38	212	63	234	88	325
14	176	39	216	64	235	89	329
15	180	40	219	65	237	90	331
16	183	41	221	66	239	91	342
17	185	42	223	67	241	92	356
18	187	43	223	68	246	93	370
19	189	44	225	69	250	94	480
20	190	45	225	70	250	95	838
21	190	46	226	71	252	96	950
22	192	47	226	72	253	97	1040
23	192	48	226	73	253	98	1128
24	194	49	228	74	253	99	1227
25	194	50	228	75	264		

Analysis results : Table of cutpoints

BP(F)	%	BP(F)	%	BP(F)	%	BP(F)	%
360	92.4	700	94.4	1000	96.5		
480	94.0	800	94.7	1100	97.7		
650	94.3	900	95.5	1200	98.8		

APPENDIX C-5

SOIL GRAIN SIZE AND PERMEABILITY ANALYTICAL DATA

GeoTesting Express

1145 MASSACHUSETTS AVE.
BOXBOROUGH, MA 01719
978-635-0424 (FAX) 978-635-0266

October 28, 1998

Ms. Lil Repin
Katahdin Analytical Services
340 County Road
Westbrook, ME 04098

RE: Charlestown (GTX-2017)

Dear Ms. Repin:

Enclosed are the test results you requested for the above referenced project. Six samples were delivered to our laboratory on October 20, 1998. A copy of the chain of custody for these samples is located at the end of this report.

GeoTesting Express performed the following analyses on these samples:

4 sieve analyses (ASTM D 422)
1 fixed wall permeability (ASTM D 2434)
1 flexible wall permeability (ASTM D 5084)
2 gas permeabilities (ASTM D 4525)

Samples with permeabilities faster than 5.0×10^{-4} cm/sec are performed using a fixed wall permeameter in accordance with ASTM D 2434. Sample W03179-16 had a permeability faster than this therefore a fixed wall permeability was performed. Samples tested for water and gas permeability were remolded to their as-received density and moisture content during the test

The results presented in this report apply only to the items tested. This report shall not be reproduced except in full, without written approval from GeoTesting Express. The remainder of these samples will be retained for a period of sixty days and will then be discarded unless otherwise notified by you. Please call me directly if you have any questions or require additional information. Thank you for allowing GeoTesting Express the opportunity to provide your firm with physical properties testing of soils. We look forward to working with you again on future projects.

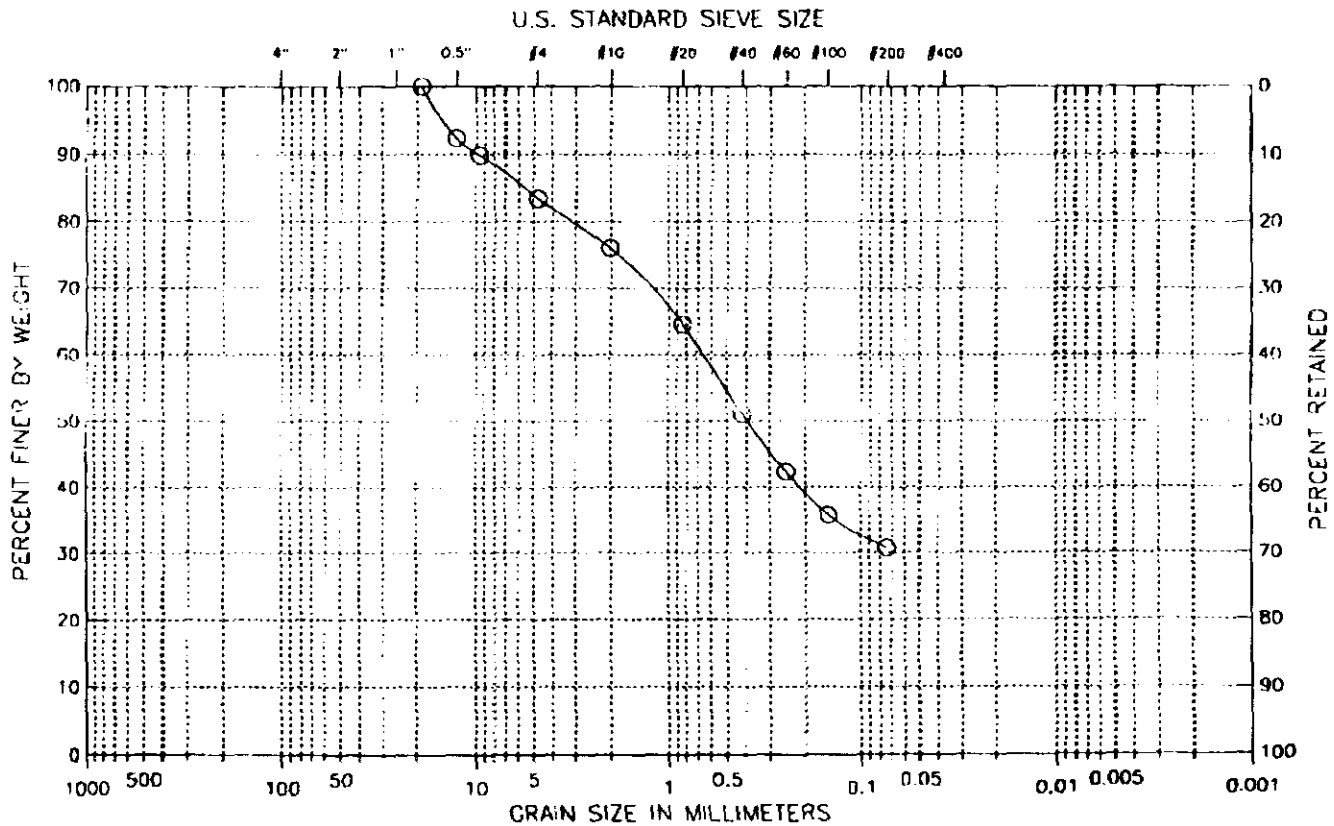
Respectfully yours,

Gary T. Torosian

Gary T. Torosian
Laboratory Manager

Totally Automated
Geotechnical Testing

Boring No. : ---	Project : COE
Sample No: W03179- 17	Project No.: GTX-2017
Test Method ASTM D 422	Location: Charlestown
Filename : 17	Date : Wed Oct 28 1998



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :

Visual Description :
Moist, dark yellowish brown silty sand with gravel

Figure 1

GEOTECHNICAL LABORATORY TEST DATA

Project : COB
Project No. : GTX-2017
Boring No. : ---
Sample No. : W03179-17
Location : Charlestown
Soil Description : Moist, dark yellowish brown silty sand with gravel
Remarks : ---

Depth : ---
Test Date : 10/21/98
Test Method : ASTM D 422

Filename : 17
Elevation : ---
Tested by : swj
Checked by : gtt

FINE SIEVE SET

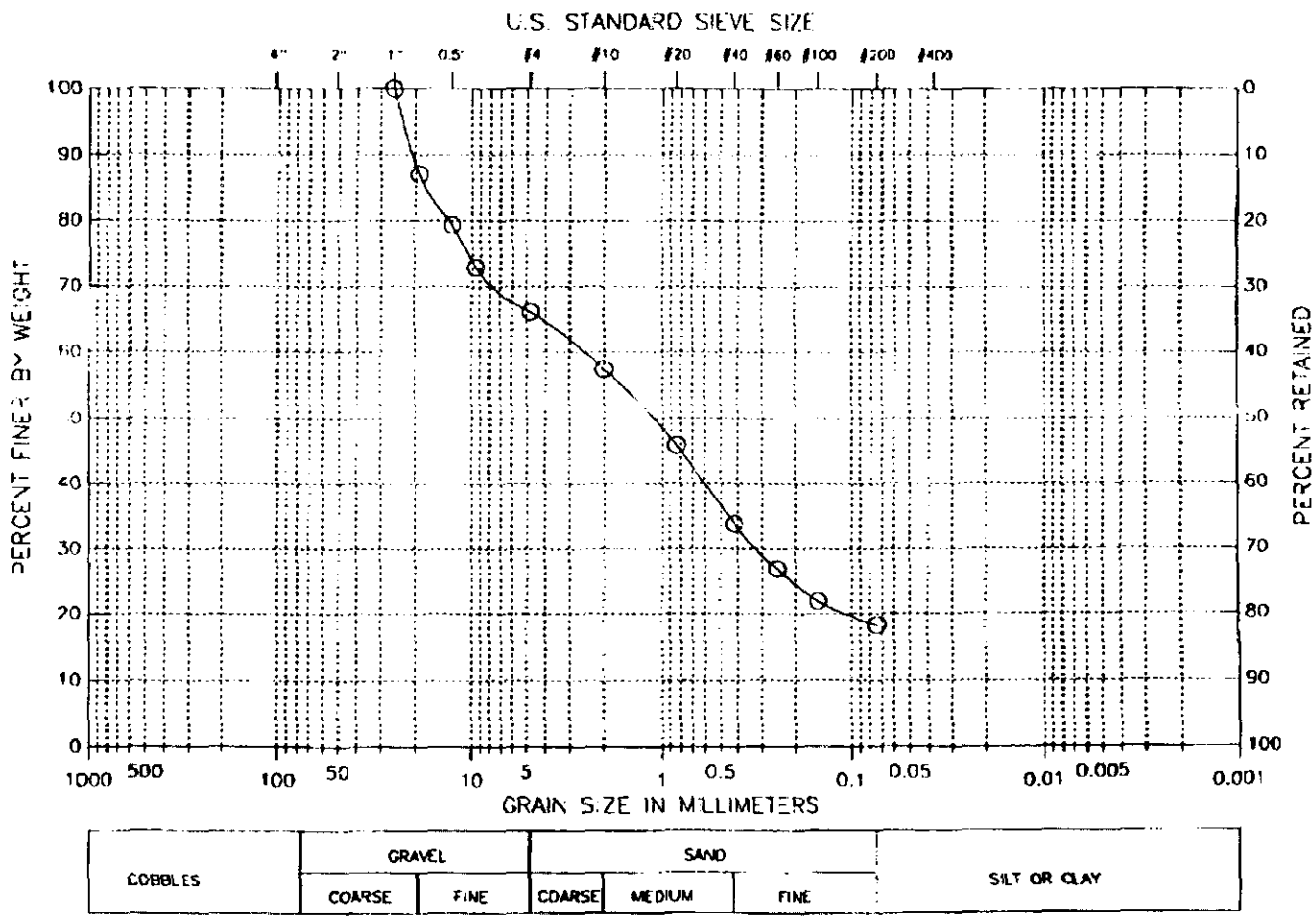
Sieve Mesh	Sieve Openings Inches	Sieve Openings Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	8.45	8.45	92
0.375"	0.374	9.51	2.74	11.19	90
#4	0.187	4.75	7.06	18.25	83
#10	0.079	2.00	8.16	26.41	76
#20	0.033	0.84	12.60	39.01	65
#40	0.017	0.42	14.95	53.96	51
#60	0.010	0.25	9.65	63.61	42
#100	0.006	0.15	7.29	70.90	36
#200	0.003	0.07	5.51	76.41	31
Pan			33.92	110.33	0

Total Dry Weight of Sample = 119.51

D85 : 5.6145 mm
D60 : 0.6630 mm
D50 : 0.3937 mm
D30 : N/A
D15 : N/A
D10 : N/A

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-2-4(0)
AASHTO Group Name : Silty Gravel and Sand

Boring No. : ---	Project : COE
Sample No. W03179-18	Project No.: GIX-2017
Test Method ASTM D 422	Location: Charlestown
Filename : 18	Date : Wed Oct 28 1998



Classification :

Remarks :

Visual Description :
Wet, very dark brown silty sand with gravel

Figure 2

Wed Oct 28 10:29:26 1998 Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : COB
Project No. : GTX-2017
Boring No. : ---
Sample No. : W03179-18
Location : Charlestown
Soil Description : Wet, very dark brown silty sand with gravel
Remarks : ---

Depth : ---
Test Date : 10/21/98
Test Method : ASTM D 422

Filename : 18
Elevation : ---
Tested by : swj
Checked by : gtt

FINE SIEVE SET

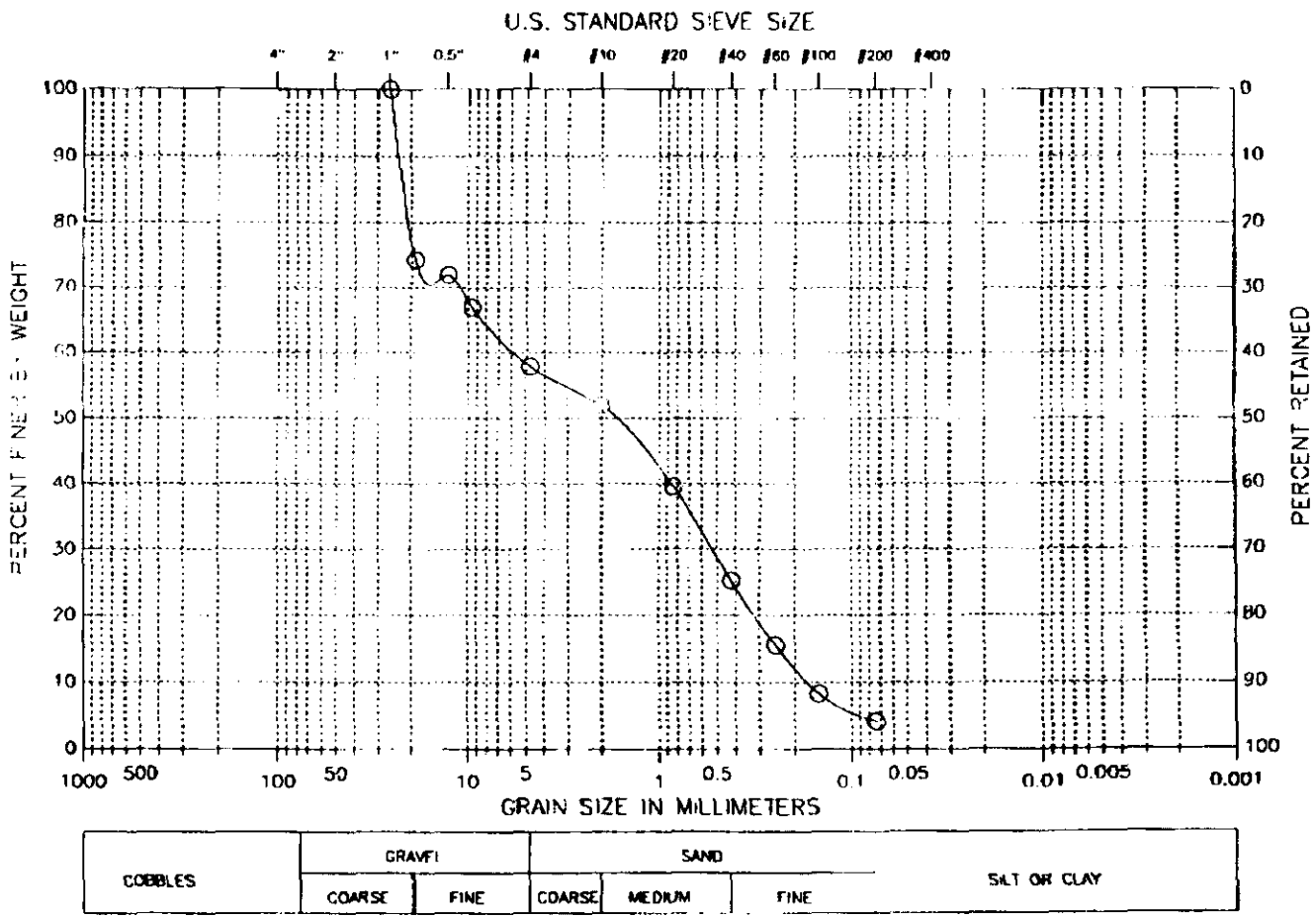
Sieve Mesh	Sieve Openings Inches	Sieve Openings Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	18.07	18.07	87
0.5"	0.500	12.70	10.85	28.92	79
0.375"	0.374	9.51	8.96	37.88	73
#4	0.187	4.75	9.54	47.42	66
#10	0.079	2.00	12.26	59.68	57
#20	0.033	0.84	16.40	76.08	46
#40	0.017	0.42	16.84	92.92	34
#60	0.010	0.25	9.61	102.53	27
#100	0.006	0.15	7.01	109.54	22
#200	0.003	0.07	5.03	114.57	18
Pan			25.68	140.25	0

Total Dry Weight of Sample = 145.16

D65 : 17.0175 mm
D60 : 2.5747 mm
D50 : 1.1519 mm
D30 : 0.3163 mm
D15 : N/A
D10 : N/A

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---	Project : COE
Sample No: W03179-19	Project No.: GIX-2017
Test Method ASTM D 422	Location: Charlestown
Filename : 19	Date : Wed Oct 28 1998



Classification :
(SP) Poorly graded sand with gravel
Visual Description :
Wet, yellowish brown sand with gravel

Remarks :

Figure 3

GEOTECHNICAL LABORATORY TEST DATA

Project : COE
Project No. : GTX-2017
Boring No. : ---
Sample No. : W03179-19
Location : Charlestown
Soil Description : Wet, yellowish brown sand with grav .
Remarks : ---

Depth : ---
Test Date : 10/21/ .
Test Method : ASTM D 422

Filename : 19
Elevation : ---
Tested by : swj
Checked by : gtt

FINE SIEVE SET

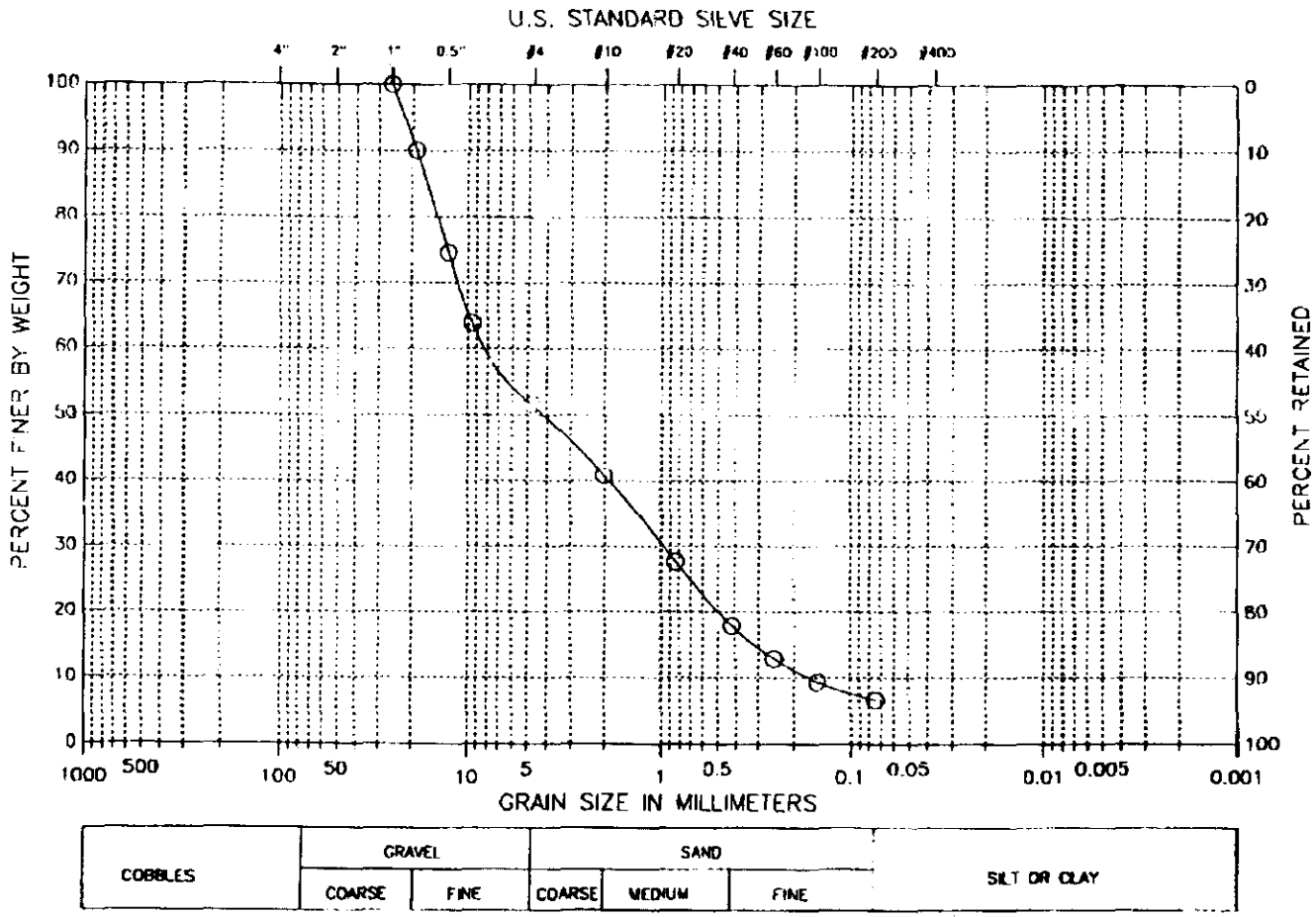
Sieve Mesh	Sieve Openings Inches	Sieve Openings Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	34.48	34.48	74
0.5"	0.500	12.70	3.11	37.59	72
0.375"	0.374	9.51	6.72	44.31	67
#4	0.187	4.75	12.14	56.45	58
#10	0.079	2.00	7.88	64.33	52
#20	0.033	0.84	16.68	81.01	40
#40	0.017	0.42	19.26	100.27	25
#60	0.010	0.25	12.90	113.17	16
#100	0.006	0.15	9.77	122.94	9
#200	0.003	0.07	5.55	128.49	4
Pan			5.54	134.03	0

Total Dry Weight of Sample = 142.94

D85 : 21.5499 mm
D60 : 5.5869 mm
D50 : 1.7397 mm
D30 : 0.5299 mm
D15 : 0.2402 mm
D10 : 0.1684 mm

Soil Classification
ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand with gravel
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---	Project : COE
Sample No.: WG3179-20	Project No.: GTX-2017
Test Method ASTM D 422	Location: Charlestown
Filename : 20	Date : Wed Oc: 28 1998



Classification :

Remarks :

Visual Description :
Dry, pale brown sand with gravel

Figure 4

GEOTECHNICAL LABORATORY TEST DATA

Project : COE
Project No. : GTX-2017
Boring No. : ---
Sample No. : W03179-20
Location : Charlestown
Soil Description : Dry, pale brown sand with gravel
Remarks : ---

Depth : ---
Test Date : 10/21/98
Test Method : ASTM D 422

Filename : 20
Elevation : ---
Tested by : swj
Checked by : gtt

FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Sieve Openings Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	15.37	15.37	90
0.5"	0.500	12.70	24.02	39.39	75
0.375"	0.374	9.51	16.62	56.01	64
#4	0.187	4.75	18.89	74.90	52
#10	0.079	2.00	16.78	91.68	41
#20	0.033	0.84	20.38	112.06	28
#40	0.017	0.42	15.23	127.29	18
#60	0.010	0.25	7.67	134.96	13
#100	0.006	0.15	5.50	140.46	9
#200	0.003	0.07	4.22	144.68	7
Pan			10.24	154.92	0

Total Dry Weight of Sample = 163.54

D85 : 16.6513 mm
D60 : 7.6399 mm
D50 : 4.1628 mm
D30 : 0.9807 mm
D15 : 0.3121 mm
D10 : 0.1642 mm

Soil Classification
ASTM Group Symbol : N/A
ASTM Group Name : N/A
AASHTO Group Symbol : A-1-a(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter by ASTM D 5084

Constant Gradient

Client:	Katahdin Analytical Services	**Start Date:**	10/26/98
Project Name:	COE	**End Date:**	10/27/98
Project Location:	Charlestown, MA	**Tested By:**	swj
GTX #:	2017	**Checked By:**	gtt
Boring #:	---	**Sample Type:**	Remolded
Sample #:	W03179-15	**Orientation:**	Vertical
Depth:	---	**Test #:**	K2

Visual Description: Moist, dark brown silty sand with gravel; as-received wet density = 113.6 PCF

Sample Preparation: Extruded from tube and remolded into permeameter at as-received density and moisture content; all material >3/8 inch screened out of sample prior to compacting; trimmings moisture content = 9.49%

Permeant Fluid: de-aired tap water **Cell #:** 1

Parameter	Initial	Final
Height, in	2.06	1.85
Diameter, in	2.86	2.91
Area, in^2	6.42	6.65
Volume, in^3	13.23	12.30
Mass, g	385	416
Bulk Density, pcf	110.6	128.5
Moisture Content, %	9.8	18.7
Dry Density, pcf	100.7	108.3

B COEFFICIENT DETERMINATION

Cell Pressure, psi:	105	**Press. Increment, psi:**	5
Sample Pressure, psi:	100	**B Coefficient:**	0.95 assumed

FLOW DATA

Date	Elapsed Time, sec	Cell Pressure, psi	Inlet Pressure, psi	Outlet Pressure, psi	Gradient	Inflow V, cc	Outflow V, cc	Δ Inflow V, cc	Δ Outflow V, cc	Temp, °C	R_i	Permeability K @ 20 °C, cm/sec
10/27	---	105.0	100.5	99.5	15.0	11.00	14.20	---	---	---	---	---
10/27	16	105.0	100.5	99.5	15.0	14.00	11.20	3.00	3.00	20	1.000	2.92E-04
10/27	---	105.0	100.5	99.5	15.0	10.00	15.60	---	---	---	---	---
10/27	27.5	105.0	100.5	99.5	15.0	15.00	10.60	5.00	5.00	20	1.000	2.83E-04
10/27	---	105.0	100.5	99.5	15.0	10.00	15.30	---	---	---	---	---
10/27	28.6	105.0	100.5	99.5	15.0	15.00	10.30	5.00	5.00	20	1.000	2.72E-04

PERMEABILITY AT 20 °C: 2.8 x 10^{-4} cm/sec (@ 5 psi effective stress)

Note: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.

Permeability of Granular Soils (Constant Head) by ASTM D 2434

Client:	Katahdin Analytical Services	**Start Date:**	10/26/98
Project Name:	COE	**End Date:**	10/26/98
Project Location:	Charlestown, MA	**Tested By:**	swj
GTX #:	2017	**Checked By:**	gtt
Boring #:	---	**Depth:**	---
Sample #:	W03179-16	**Sample Type:**	Remolded

Visual Description: Dry, pale brown sand with gravel

Sample Information: ASTM soil classification = — (ASTM D 2487); As-received wet density = 124.5 PCF; assumed specific gravity = 2.65

Sample Preparation/ Test Setup: Extruded from tube and remolded into permeameter at as-received density and moisture content; >3/8 inch material screened out of sample prior to testing; 5.27 lb surcharge

Parameter	Initial	Final
Height, in	1.81	1.83
Diameter, in	3.98	3.98
Area, in^2	12.4	12.4
Volume, in^3	22.5	22.8
Mass, g	721	800
Bulk Density, pcf	122.0	133.9
Moisture Content, %	2.62	13.9
Dry Density, pcf	118.9	117.5
Degree of Saturation, %	—	90.4
Void Ratio, e	---	0.41

Date	Reading #	Volume of Flow, cc	Time of Flow, sec	Flow Rate, cc/sec	Gradient	Permeability, cm/sec	Temperature, °C	Correction Factor	Permeability @ 20 °C, cm/sec
10/26	1	4.04	50	0.08	0.54	1.9E-03	15.0	1.135	2.1E-03
10/26	2	3.61	45	0.08	0.54	1.9E-03	15.0	1.135	2.1E-03
10/26	3	2.81	35	0.08	0.54	1.9E-03	15.0	1.135	2.1E-03
10/26	4	11.92	85	0.14	0.74	2.4E-03	15.0	1.135	2.7E-03
10/26	5	6.25	45	0.14	0.74	2.3E-03	15.0	1.135	2.7E-03
10/26	6	7.23	52	0.14	0.74	2.3E-03	15.0	1.135	2.7E-03
10/26	7	8.55	40	0.21	1.01	2.6E-03	15.0	1.135	3.0E-03
10/26	8	9.46	45	0.21	1.01	2.6E-03	15.0	1.135	2.9E-03
10/26	9	10.08	48	0.21	1.01	2.6E-03	15.0	1.135	2.9E-03

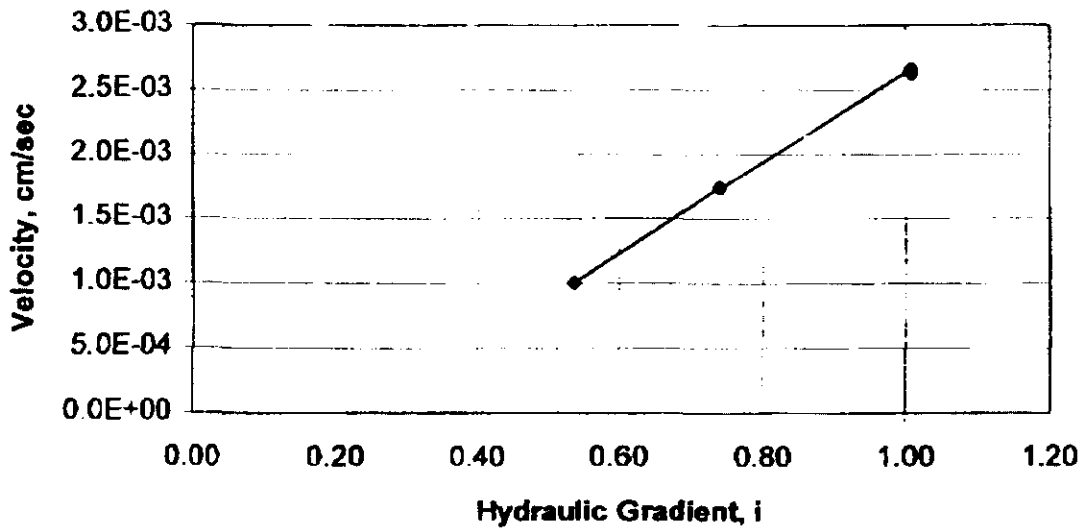
PERMEABILITY @ 20 °C = 2.8×10^{-3} cm/sec

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.

Permeability of Granular Soils (Constant Head) by ASTM D 2434

Client:	Katahdin Analytical Services	**Start Date:**	10/26/98
Project Name:	COE	**End Date:**	10/26/98
Project Location:	Charlestown, MA	**Tested By:**	swj
GTX #:	2017	**Checked By:**	gtt
Boring #:	--	**Depth:**	—
Sample #:	W03179-16	**Sample Type:**	Remolded
Visual Description:	Dry, pale brown sand with gravel		
Sample Preparation/ Test Setup:	Extruded from tube and remolded into permeameter at as-received density and moisture content; >3/8 inch material screened out of sample prior to testing; 5.27 lb surcharge		

Velocity vs. Hydraulic Gradient



Permeability of Rocks by Flowing Air by ASTM D 4525

Client:	Katahdin Analytical Services	**Test Date:**	10/27/98
Project Name:	COE	**Tested By:**	swj/rh
Project Location:	Charlestown, MA	**Checked By:**	rh
GTX #:	2017		

Sample ID:	W03179-13		
Visual Description:	Moist, dark brown silty sand with gravel		
Sample Preparation:	Extruded from tube and recompacted into test chamber at as-received density and moisture content; as-received bulk density = 111.5; <3/8 inch screened out		
Length, m:	0.06274	**Fluid**	
Diameter, m:	0.05309	Temperature, °C:	20
Mass, g:	253	Air Viscosity (u), Pa sec:	1.80E-05
Area, m²:	2.21E-03		
Bulk Density, pcf:	113.5	**Confining Pressure, kPa:**	140

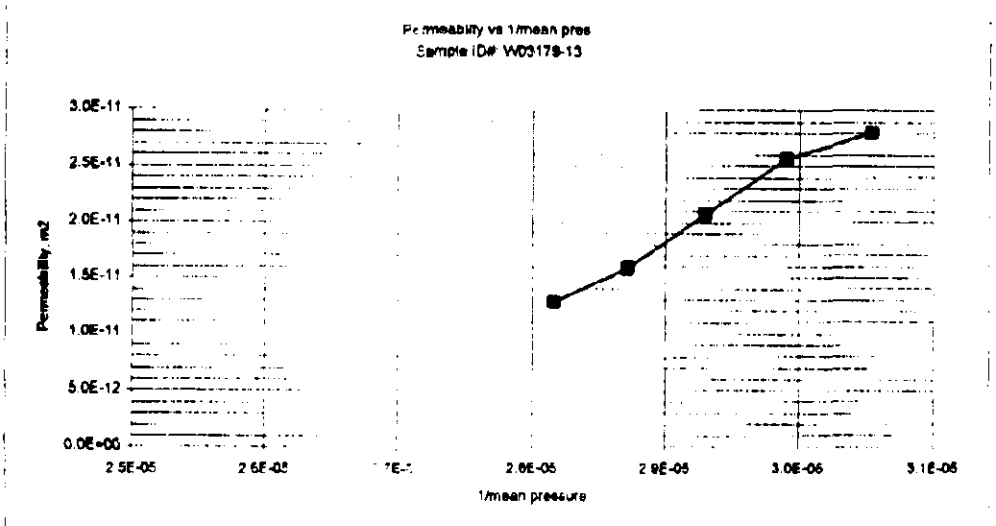
Exit Flow Rate (Q_e), m³/sec	Exit Pressure (P_e), Pa	Entrance Pressure (P_i), Pa	Recip. Mean Pressure $1/[(P_e+P_i)/2]$	Coefficient of Permeability, m²
1.75E-05	35163	35853	2.82E-05	1.28E-11
2.17E-05	34474	35163	2.87E-05	1.59E-11
2.83E-05	33784	34474	2.93E-05	2.08E-11
3.50E-05	33095	33784	2.99E-05	2.56E-11
3.83E-05	32405	33095	3.05E-05	2.81E-11

The coefficient of permeability, K, at at each mean pressure is calculated as follows:

$$k = [(2Q_e \cdot P_e \cdot u \cdot L)/(P_i^2 - P_e^2)A]$$

Where:

Q_e = Exit flow rate of air, m³/sec
k = Coefficient of permeability, m²
P_e = Exit Pressure, Pa
P_i = Entrance pressure, Pa
L = Length of specimen, m
A = Cross-section area, m²
u = viscosity of air @ temperature of test, Pa sec
P_{avg} = Mean pressure, Pa



Permeability of Rocks by Flowing Air by ASTM D 4525

Client:	Katahdin Analytical Services	**Test Date:**	10/27/98
Project Name:	COE	**Tested By:**	swj/rh
Project Location:	Charlestown, MA	**Checked By:**	rh
GTX #:	2017		

Sample ID:	W03179-14		
Visual Description:	Moist, olive brown gravelly sand		
Sample Preparation:	Extruded from tube and recompacted into test chamber at as-received density and moisture content; as-received bulk density = 113.1; >3/8 inch screened out		
Length, m:	0.06350	**Fluid**	
Diameter, m:	0.05359	Temperature, °C:	20
Mass, g:	253	Air Viscosity (u), Pa sec:	1.80E-05
Area, m²:	2.26E-03		
Bulk Density, pcf:	110.0	**Confining Pressure, kPa:**	140

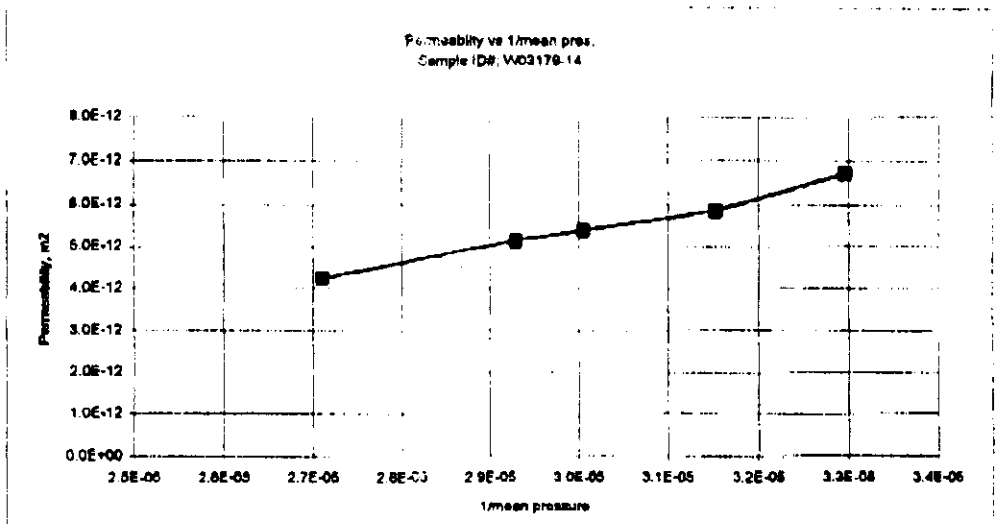
Exit Flow Rate (Q_e), m³/sec	Exit Pressure (P_e) Pa	Entrance Pressure (P_i), Pa	Recip. Mean Pressure $1/[(P_e+P_i)/2]$	Coefficient of Permeability, m²
5.83E-06	36542	37232	2.71E-05	4.25E-12
2.17E-05	33095	35163	2.93E-05	5.15E-12
2.67E-05	32061	34474	3.01E-05	5.40E-12
3.33E-05	30337	33095	3.15E-05	5.86E-12
3.83E-05	28958	31716	3.30E-05	6.72E-12

The coefficient of permeability, K, at at each mean pressure is calculated as follows:

$$k = [(2Q_e * P_e * u * L)/(P_i^2 - P_e^2)]/A$$

Where:

Q_e = Exit flow rate of air, m³/sec
k = Coefficient of permeability, m²
P_e = Exit Pressure Pa
P_i = Entrance pressure, Pa
L = Length of specimen, m
A = Cross-section area, m²
u = viscosity of air @ temperature of test, Pa sec
P_{avg} = Mean pressure, Pa



Katahdin
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 ___ of ___

Client: Katahdin Analytical Services | Contact: L L Ropin | Phone # ( ) | Fax # ( )

Address: Same as above | City | State | Zip Code

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

Bill (if different than above) | Address

Sampler (Print / Sign) | Copies To:

LAB USE ONLY | WORK ORDER #

KATAHDIN PROJECT MANAGER

REMARKS: SUB TO GEOTESTING

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.	Air Permability (Filt. ☐Y☐N)	Water Permability (Filt. ☐Y☐N)	Grain Size (Filt. ☐Y☐N)	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	WO3179-13	10/12/1410	SI	1	X									
	-14	10/13/0925	SI		X									
	WO3179-15	10/12/1410	SI			X								
	-16	10/13/0925	SI	1		X								
	WO3179-17	10/12/1420	SI				X							
	-18	10/12/1440	SI				X							
	-19	10/13/0935	SI				X							
	-20	10/13/0940	SI				X							
		/												
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS: QC-II Results Due 10/31/98

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	10/19/98	1400			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
		[signature] /CR	10/20/98		

ORIGINAL

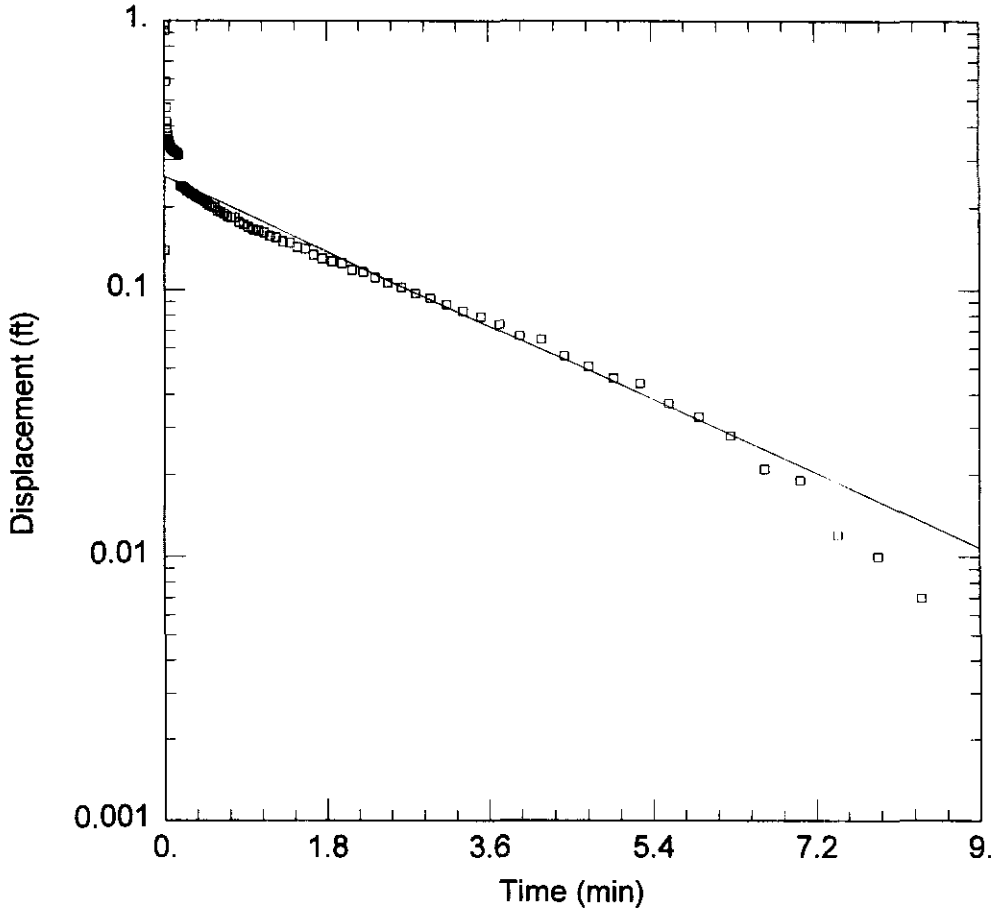
APPENDIX D

SLUG TEST DATA

CENAE - CHARLESTOWN, R.I.
SITE 8 SLUG TEST HYDRAULIC CONDUCTIVITY SUMMARY
DECEMBER 10, 1998

Monitoring Well Location	Total Depth (ft - TIC)	Screened Interval (ft)	Well Diameter (in)	Test Type and Number	Hydraulic Conductivity (ft/day)
GSA-1	21.6	11.6 - 21.6	2	Falling Head 1	1.2
				Rising Head 1	1.4
GSA-2	24.0	9.0 - 24.0	2	Falling Head 1	0.4
				Rising Head 1	0.4
GSA-3	26.5	11.5 - 26.5	2	Falling Head 1	0.7
				Rising Head 1	0.7
				Rising Head 2	0.6
GSA-4	27.1	12.1 - 27.1	2	Falling Head 1	25.3
				Rising Head 1	25.0
GSA-5	53.0	37.0 - 53.0 (open hole)	3	Falling Head 1	27.7
				Rising Head 1	29.4
				Rising Head 2	35.0
CN-12	25.0	15.0 - 25.0	2	Falling Head 1	44.0
				Rising Head 1	45.0
				Rising Head 2	45.3

* Note: All hydraulic conductivity values calculated using Bouwer-Rice Method.



WELL GSA-1 FALLING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA1FH1.AQT
Date: 12/10/98 Time: 17:20:06

AQUIFER DATA

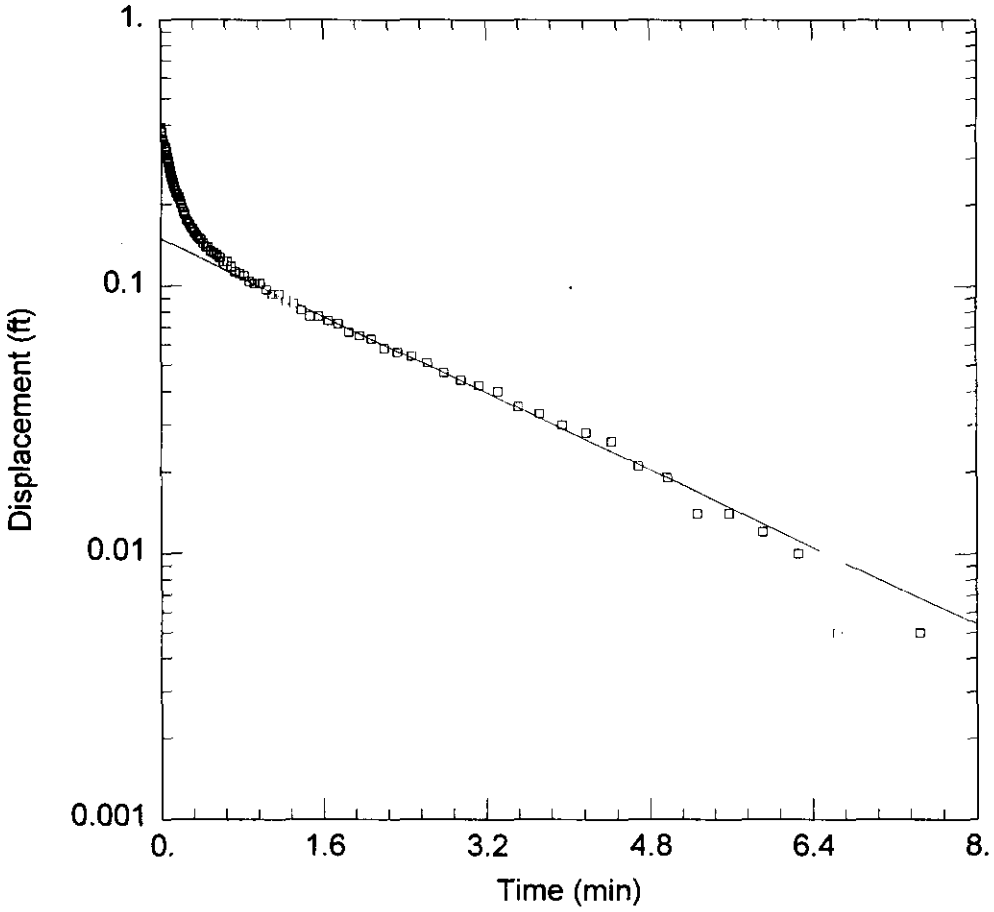
Saturated Thickness: 7.75 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.962 ft Water Column Height: 2.67 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 10. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.000823 ft/min
Solution Method: Bouwer-Rice y0 = 0.2603 ft



WELL GSA-1 RISING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA1RH1.AQT
Date: 12/10/98 Time: 17:20:54

AQUIFER DATA

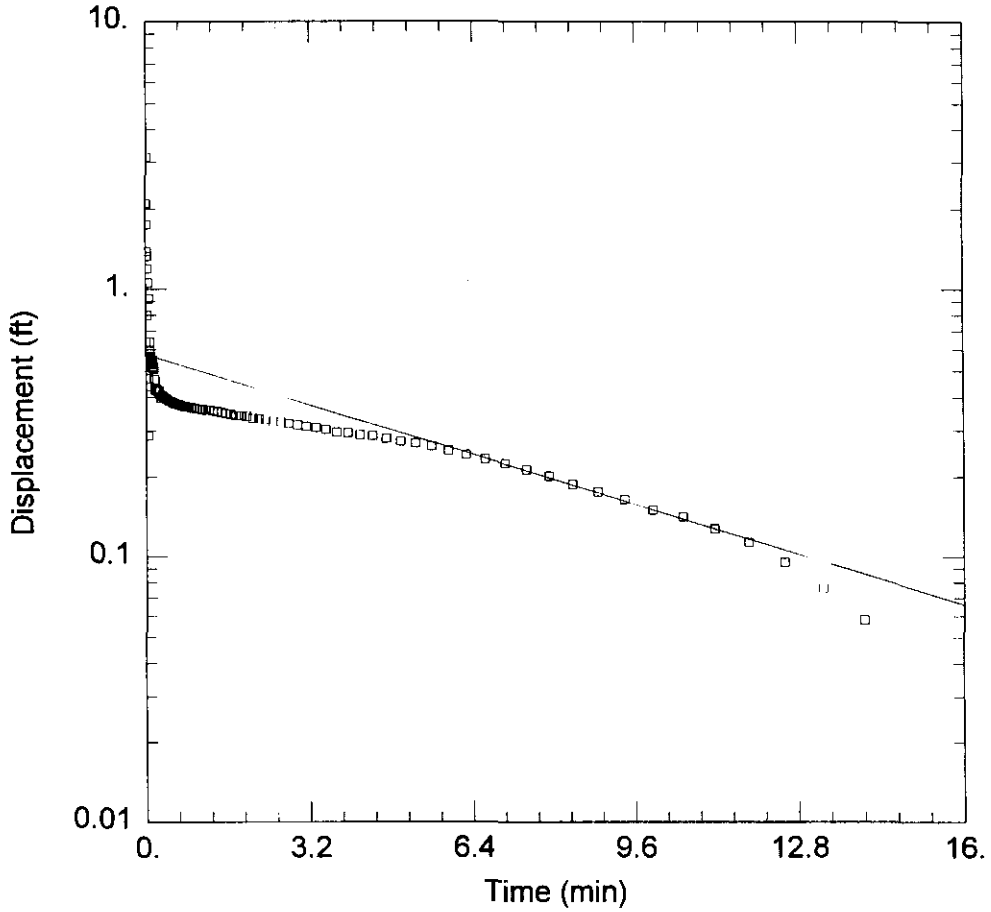
Saturated Thickness: 7.75 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.391 ft Water Column Height: 2.67 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 10. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.0009629 ft/min
Solution Method: Bouwer-Rice y0 = 0.1487 ft



WELL GSA-2 FALLING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA2FH1.AQT
Date: 12/10/98 Time: 17:16:23

AQUIFER DATA

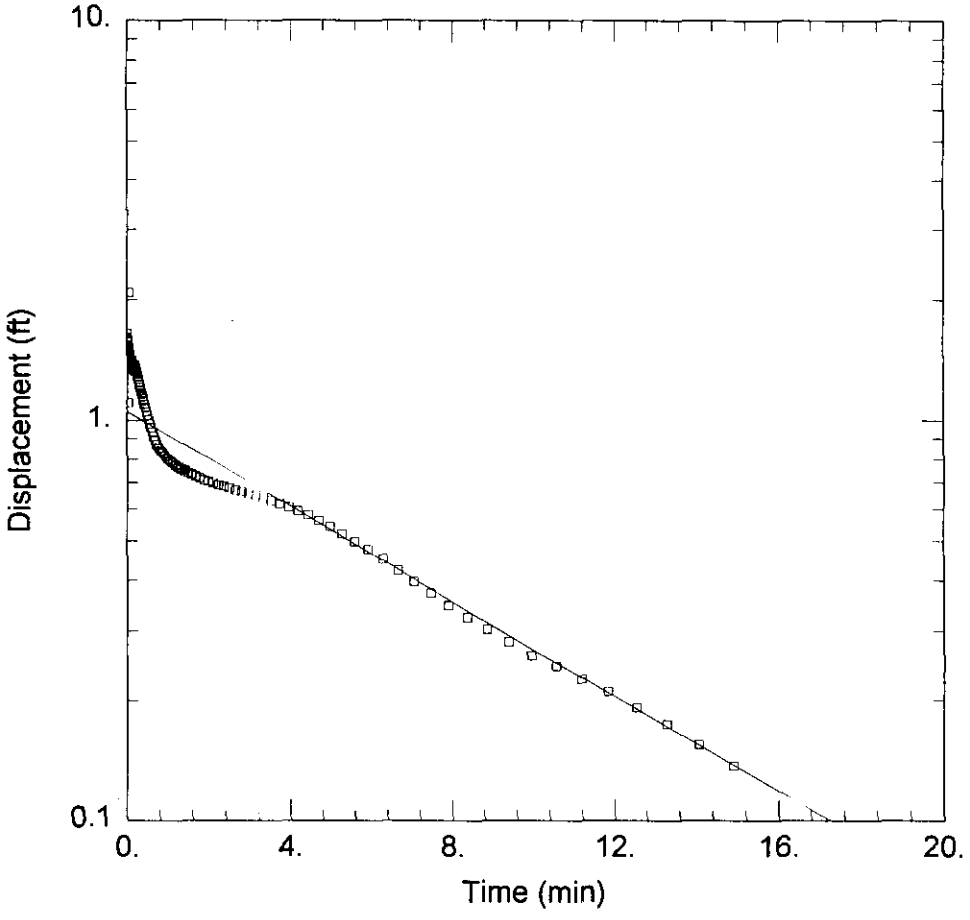
Saturated Thickness: 10.9 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.639 ft Water Column Height: 8.38 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 15. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.0003049 ft/min
Solution Method: Bouwer-Rice y0 = 0.5753 ft



WELL GSA-2 RISING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA2RH1.AQT
Date: 12/10/98 Time: 17:17:24

AQUIFER DATA

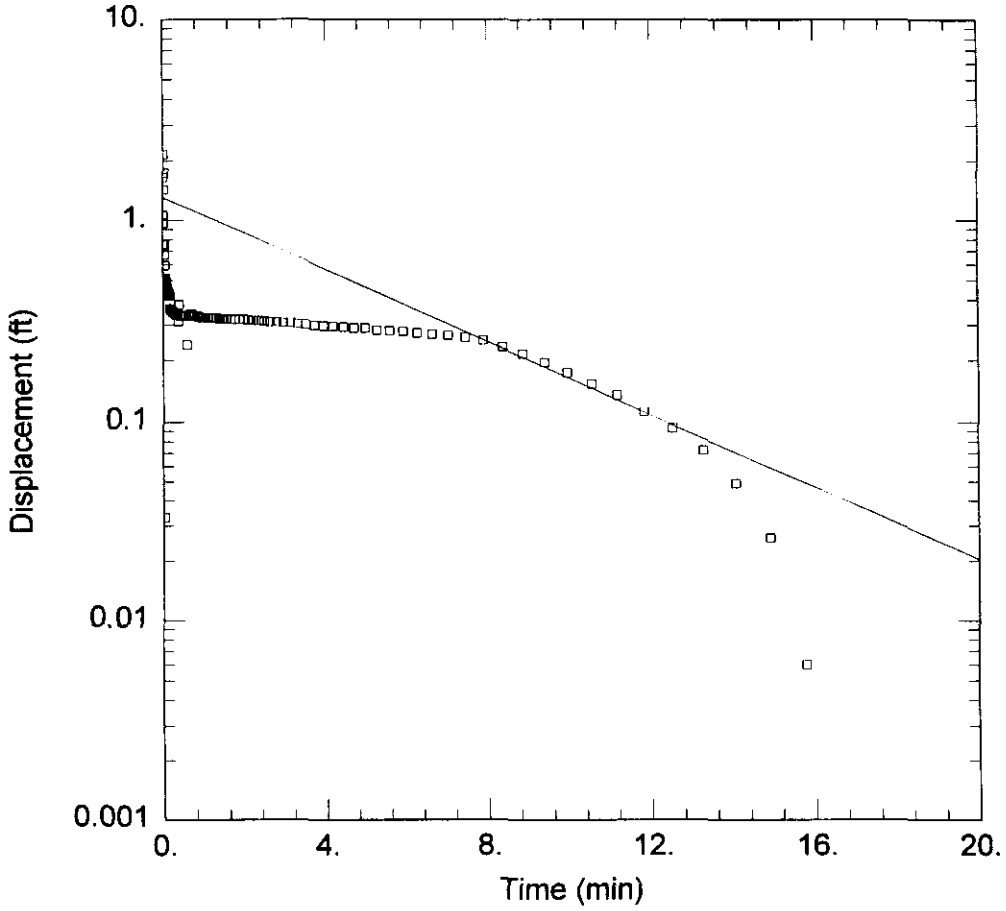
Saturated Thickness: 10.9 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.65 ft
Water Column Height: 8.38 ft
Casing Radius: 0.08333 ft
Wellbore Radius: 0.25 ft
Screen Length: 15. ft
Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined
K = 0.0003076 ft/min
Solution Method: Bouwer-Rice
y0 = 1.052 ft



WELL GSA-3 FALLING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA3FH1.AQT
Date: 12/10/98 Time: 17:31:24

AQUIFER DATA

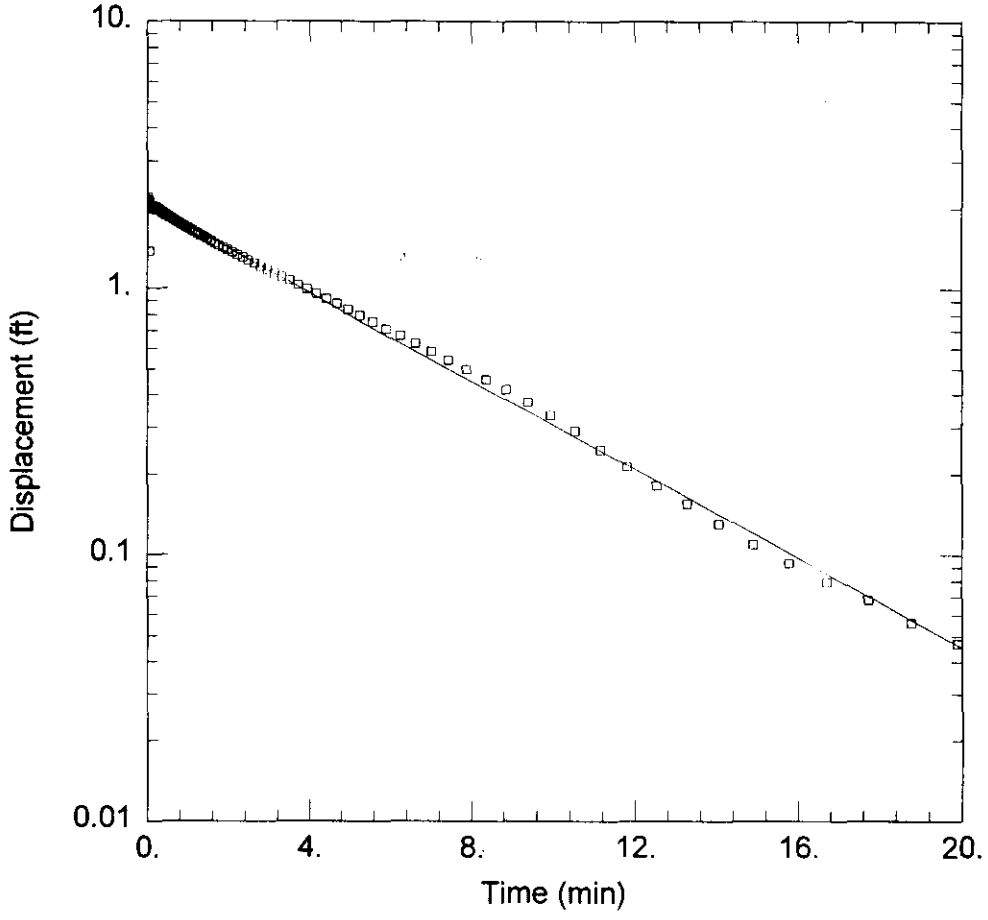
Saturated Thickness: 9.9 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.755 ft Water Column Height: 9.9 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 15. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.0005241 ft/min
Solution Method: Bouwer-Rice y0 = 1.302 ft



WELL GSA-3 RISING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA3RH1.AQT
Date: 12/10/98 Time: 17:28:15

AQUIFER DATA

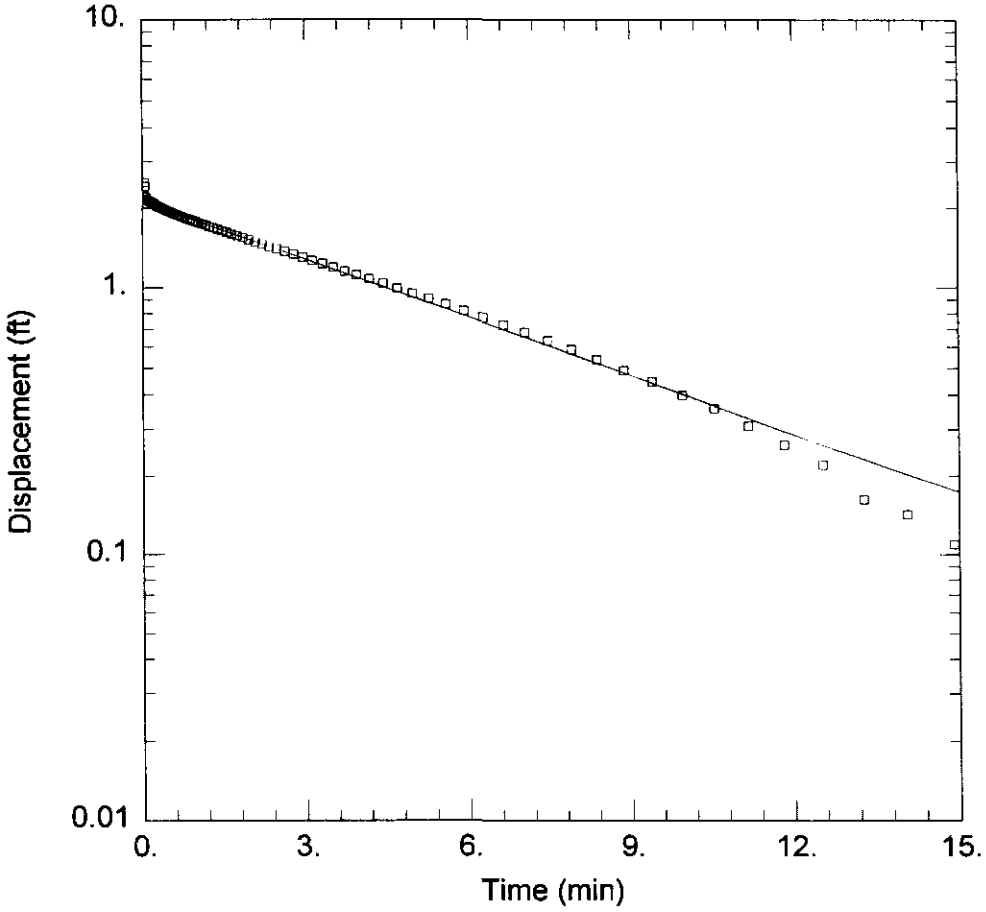
Saturated Thickness: 9.9 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.1 ft Water Column Height: 9.9 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 15. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.0004813 ft/min
Solution Method: Bouwer-Rice y0 = 2.066 ft



WELL GSA-3 RISING HEAD TEST 2

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA3RH2.AQT
Date: 12/10/98 Time: 17:37:37

AQUIFER DATA

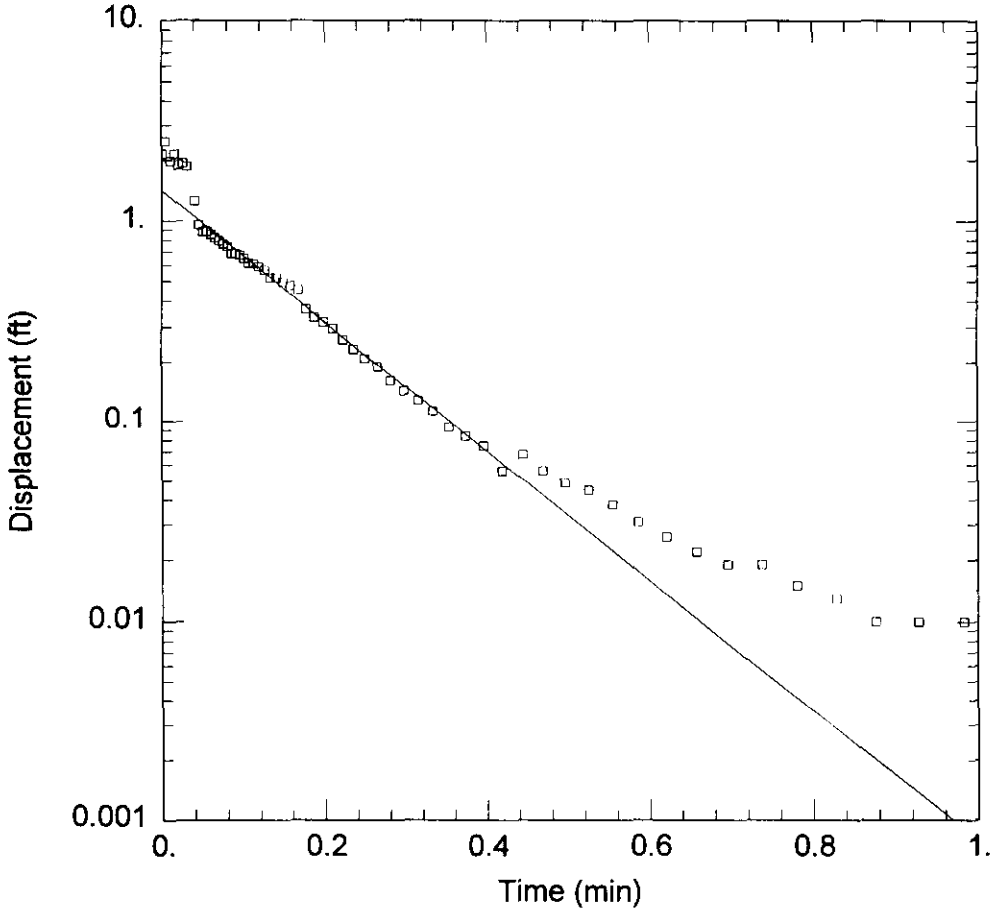
Saturated Thickness: 9.9 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.2 ft Water Column Height: 9.9 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 15. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.0004193 ft/min
Solution Method: Bouwer-Rice y0 = 2.098 ft



WELL GSA-4 FALLING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA4FH1.AQT
Date: 12/10/98 Time: 18:03:44

AQUIFER DATA

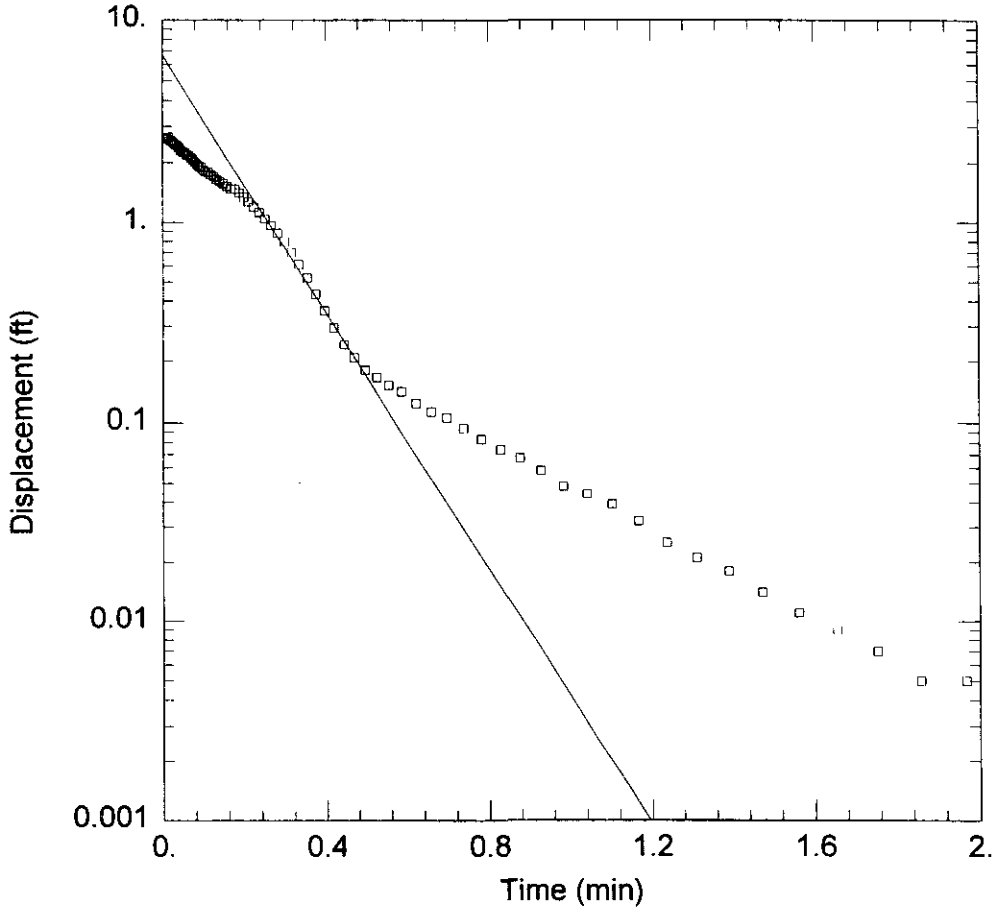
Saturated Thickness: 11.7 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.151 ft Water Column Height: 9.8 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 15. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.01759 ft/min
Solution Method: Bouwer-Rice y0 = 1.413 ft



WELL GSA-4 RISING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA4RH1.AQT
Date: 12/10/98 Time: 17:49:42

AQUIFER DATA

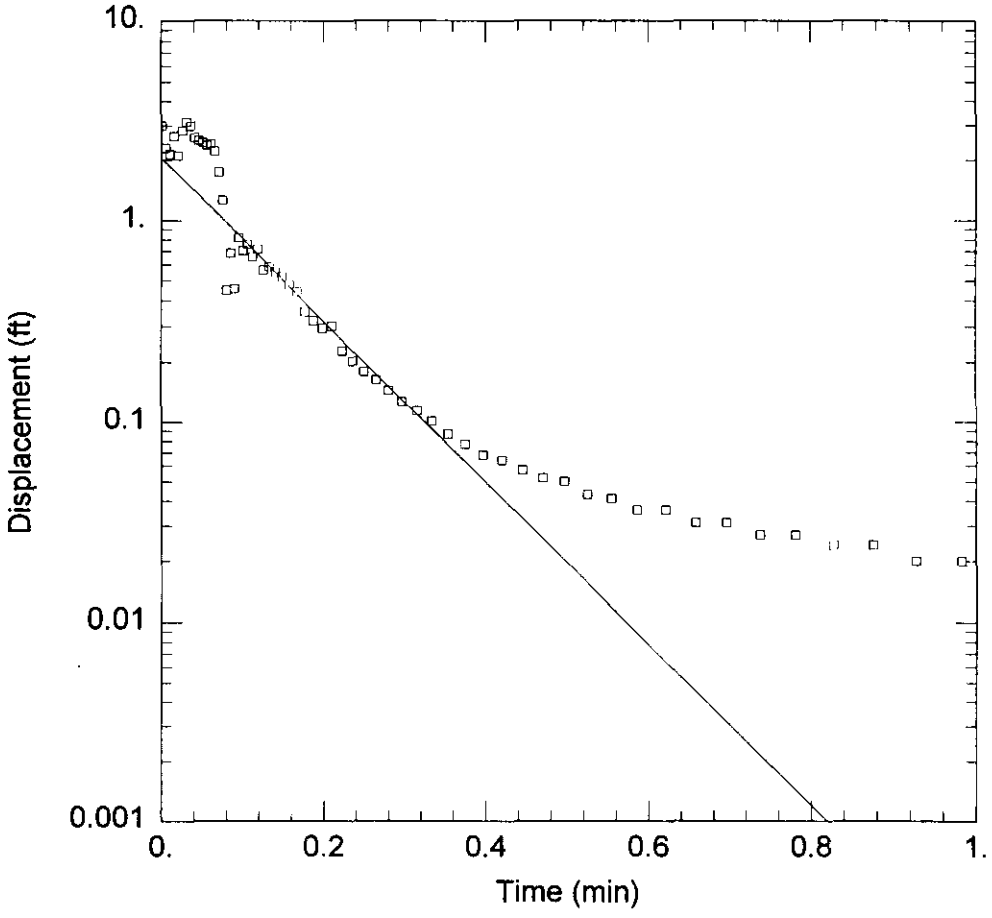
Saturated Thickness: 11.7 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.6 ft Water Column Height: 9.8 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 15. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.01732 ft/min
Solution Method: Bouwer-Rice y0 = 6.683 ft



WELL GSA-5 FALLING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA5FH1.AQT
Date: 12/10/98 Time: 18:33:56

AQUIFER DATA

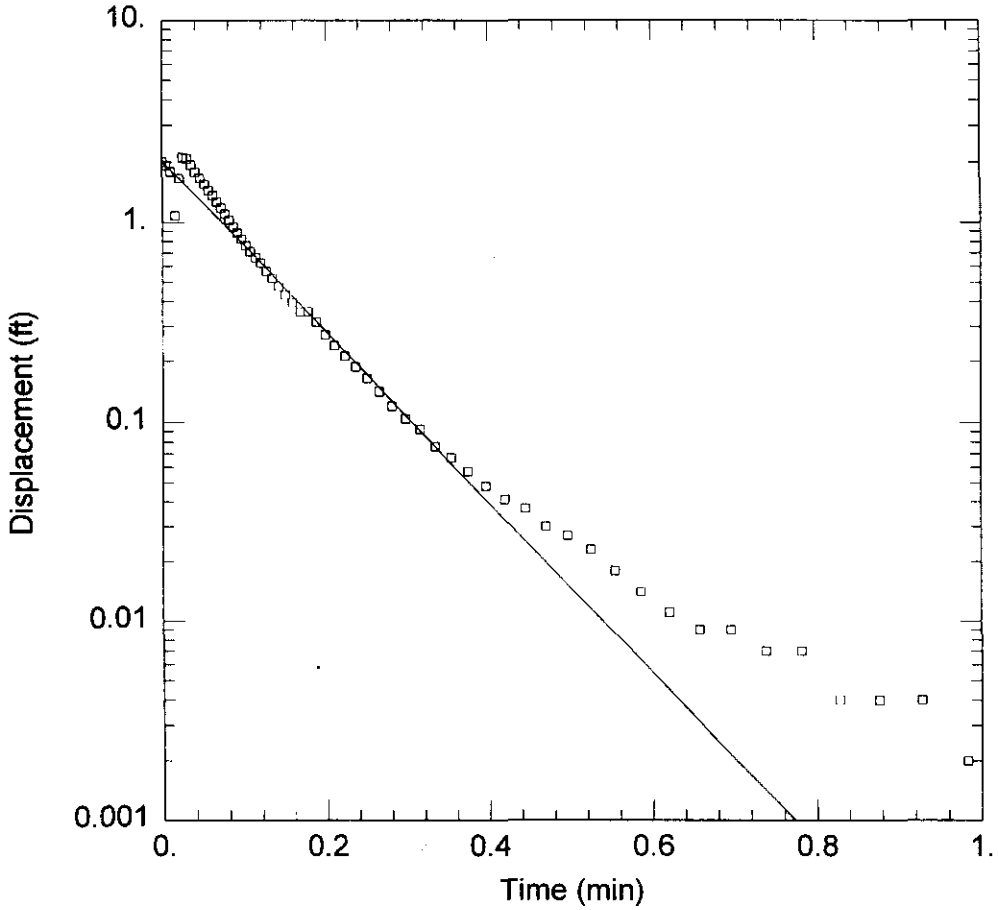
Saturated Thickness: 16. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 3. ft
Casing Radius: 0.125 ft
Screen Length: 16. ft
Water Column Height: 34.7 ft
Wellbore Radius: 0.125 ft
Gravel Pack Porosity: 0.15

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01925 ft/min
y0 = 2.037 ft



WELL GSA-5 RISING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA5RH1.AQT
Date: 12/10/98 Time: 18:32:14

AQUIFER DATA

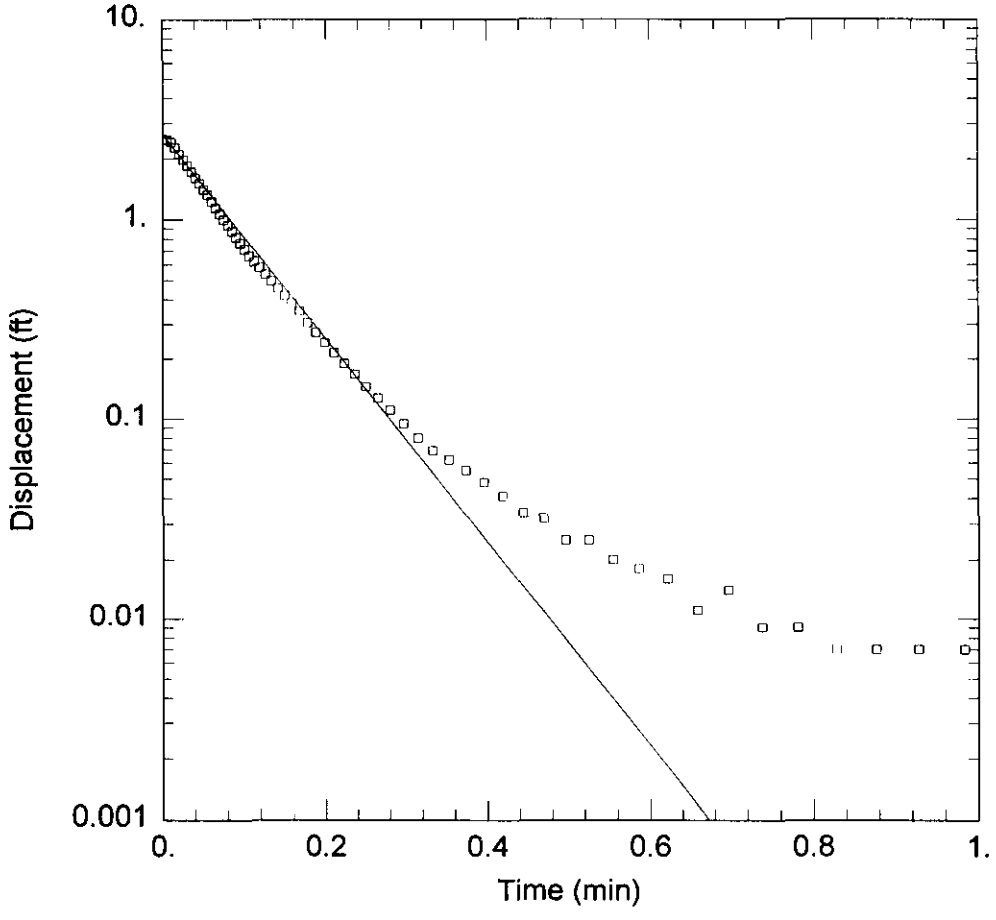
Saturated Thickness: 16. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2. ft
Casing Radius: 0.125 ft
Screen Length: 16. ft
Water Column Height: 34.7 ft
Wellbore Radius: 0.125 ft
Gravel Pack Porosity: 0.15

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.02039 ft/min
y0 = 2.016 ft



WELL GSA-5 RISING HEAD TEST 2

Data Set: G:\PROJECTS\10971028\001\SLUGS\GSA5RH2.AQT
Date: 12/10/98 Time: 18:31:14

AQUIFER DATA

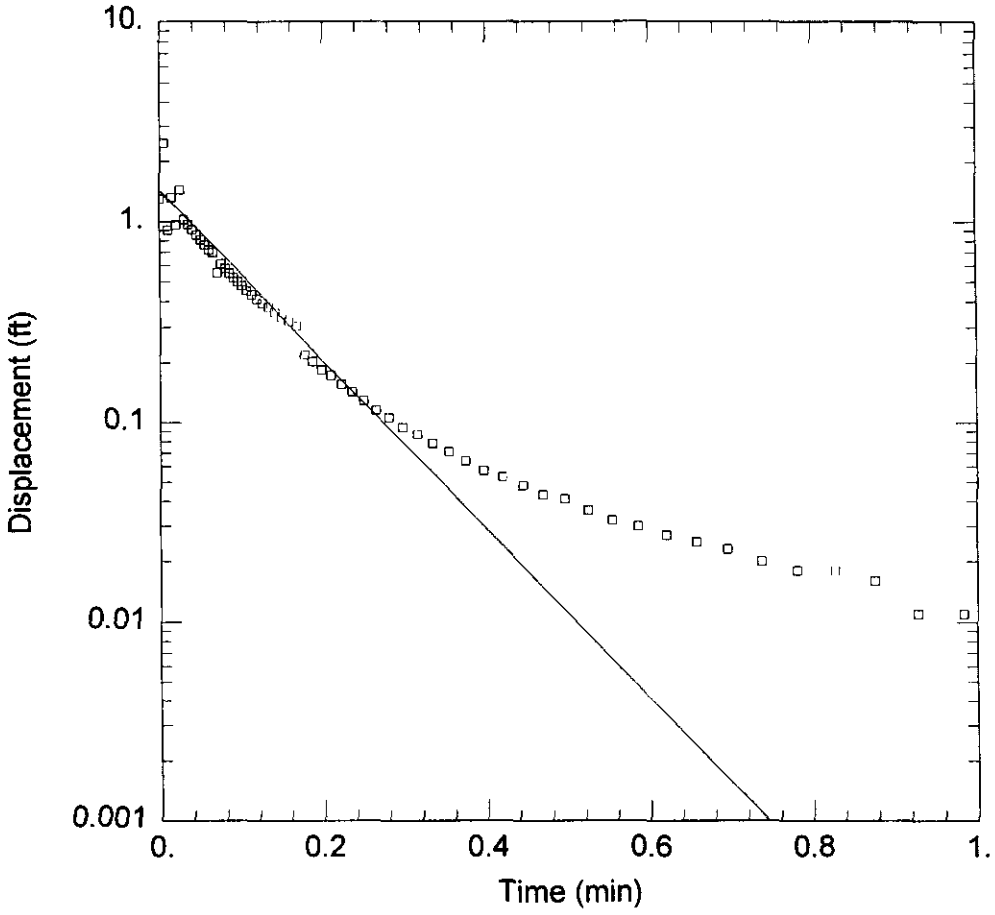
Saturated Thickness: 16. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.5 ft Water Column Height: 34.7 ft
Casing Radius: 0.125 ft Wellbore Radius: 0.125 ft
Screen Length: 16. ft Gravel Pack Porosity: 0.15

SOLUTION

Aquifer Model: Unconfined K = 0.02424 ft/min
Solution Method: Bouwer-Rice y0 = 2.631 ft



WELL CN-12 FALLING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\CN12FH1.AQT
Date: 12/10/98 Time: 18:09:58

AQUIFER DATA

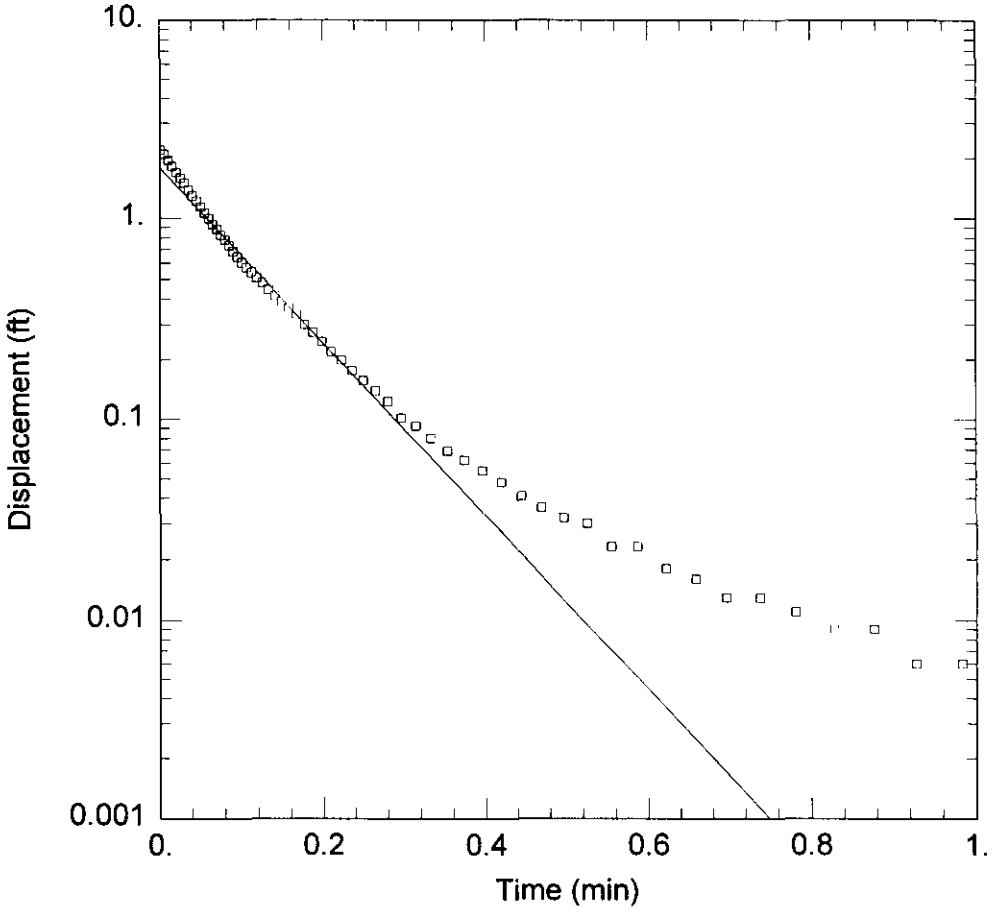
Saturated Thickness: 11.7 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.3 ft
Casing Radius: 0.08333 ft
Screen Length: 10. ft
Water Column Height: 7.65 ft
Wellbore Radius: 0.25 ft
Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.03053 ft/min
y0 = 1.441 ft



WELL CN-12 RISING HEAD TEST 1

Data Set: G:\PROJECTS\10971028\001\SLUGS\CN12RH1.AQT
Date: 12/10/98 Time: 17:54:46

AQUIFER DATA

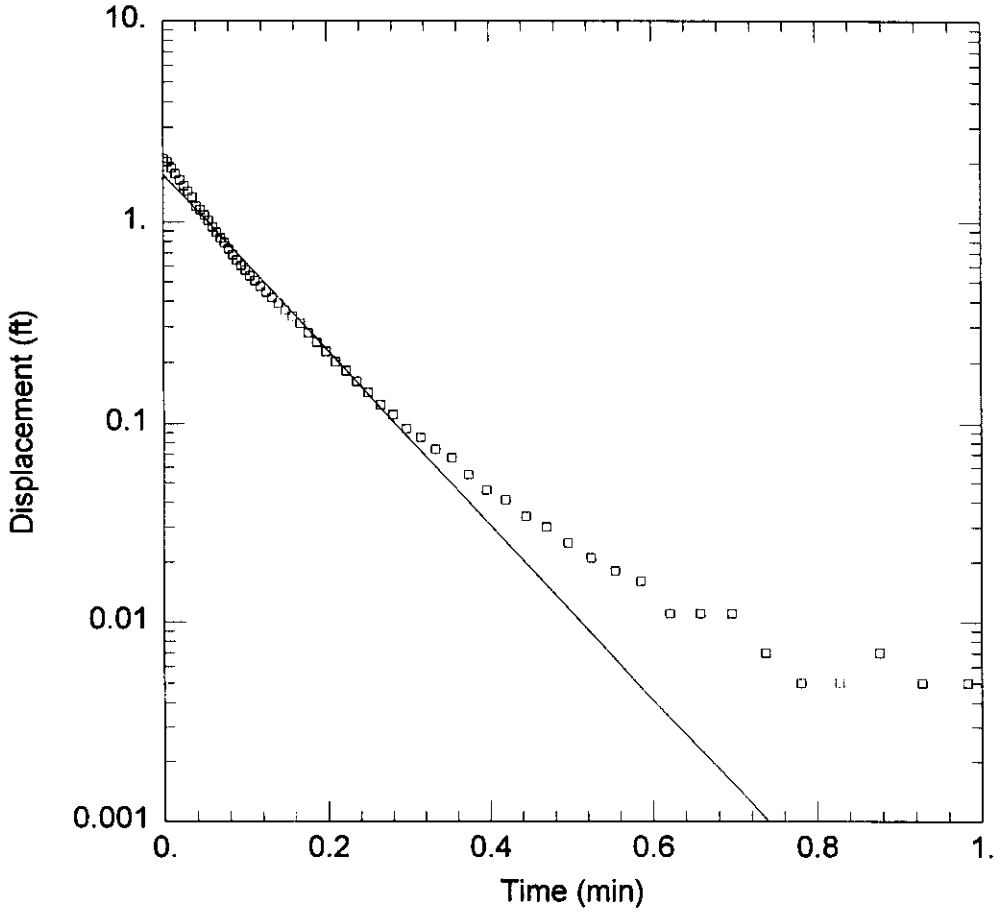
Saturated Thickness: 11.7 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.2 ft Water Column Height: 7.65 ft
Casing Radius: 0.08333 ft Wellbore Radius: 0.25 ft
Screen Length: 10. ft Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined K = 0.03122 ft/min
Solution Method: Bouwer-Rice y0 = 1.778 ft



WELL CN-12 RISING HEAD TEST 2

Data Set: G:\PROJECTS\10971028\001\SLUGS\CN12RH2.AQT
Date: 12/10/98 Time: 18:07:31

AQUIFER DATA

Saturated Thickness: 11.7 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.1 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 7.65 ft
Wellbore Radius: 0.25 ft
Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.03149 ft/min
y0 = 1.728 ft

APPENDIX E

SURVEY DATA

LOUIS FEDERICI and ASSOCIATES

365 Smith Street, Providence, RI 02908 Tele: 401-331-1570 Fax: 401-331-1593
land surveyors biologists planners

Tabulation of field located environmental test points and physical features
for Roy F. Weston, Inc. - at Ninigret Park in Charlestown, RI
Date Surveyed: 12/8/98 LFA PROJECT NUMBER = 981201
The values below are based on the following datums:
Horizontal = Rhode Island State Plane Coordinate System, NAD 1983; Vertical = Mean Sea Level
Datum provided by Roy F. Weston, Inc.

LFA PT. NO.	WESTON I.D.	NORTHING	EASTING	EXISTING GRADE	TOP OF CASE	TOP OF PVC
50	CN-12	104080.2379	283912.0221	20.93	23.13	22.93
51	WP-10	104049.4865	283926.3618	20.10		
52	GSA-4	104038.4368	283930.8128	20.24	23.14	22.92
53	SB/WP-7	104079.2465	283930.3604	20.48		
54	SB-06	104066.4080	283866.3832	20.92		
55	SB/WP-6A	104064.9315	283854.1862	20.98		
56	GSA-1	104080.5273	283799.3563	21.82	24.42	24.24
57	SB/WP-3	104061.1526	283806.8983	20.78		
58	SB/WP-2	104046.0230	283825.1590	20.26		
59	SB/WP-1	104024.6246	283822.9415	20.53		
60	SB/WP-5	104010.3394	283830.0246	19.89		
61	WP-09	103984.1562	283846.0937	19.42		
62	GSA-3	103988.1395	283837.0700	19.71	22.21	22.11
63	CN-13	104046.3408	283800.2690	21.18	23.08	22.74
64	SB/WP-4	104037.9099	283788.6683	20.94		
65	GSA-5	104040.4546	283796.0102	20.97	23.68	NONE
66	Edge Pvmt.	104108.5431	283750.0817			
67	Edge Pvmt.	104089.9740	283780.4314			
68	Edge Pvmt.	104093.3003	283815.3162			
69	Edge Pvmt.	104112.7314	283849.7875			
70	Edge Pvmt.	104149.8890	283907.0968			
71	GSA-2	103984.6541	283778.4251	21.26	21.26	21.04
72	WP-08	104000.0542	283802.8441	19.96		
73	GSA-SG-1	103946.7902	283722.4216	5.92	8.72	NONE
74	Cl. Drive	103860.7393	283840.0170			
75	Cl. Drive	103903.3512	283817.9749			
76	Cl. Drive	103949.5880	283788.2713			
77	Cl. Drive	104002.5910	283753.5224			
78	Cl. Drive	104060.7499	283717.4430			
79	Cl. Drive	104125.1244	283687.8613			
80	LF-401	100920.2997	281835.5965	6.54	9.44	9.33
81	CN-10	100760.5712	281900.4672	6.56	8.86	8.31
82	Cl. Drive	100776.6572	281899.3062			
83	Cl. Drive	100869.6970	281906.9377			
84	Cl. Drive	100913.2145	282078.5866			
85	Cl. Drive	100888.6402	281881.8374			
86	Cl. Drive	100898.9938	281852.6255			
87	Cl. Drive	100898.5376	281828.9654			
88	Cl. Drive	100761.3344	281884.2318			
89	Cl. Drive	100749.6618	281854.9922			
90	Cl. Drive	100757.3695	281825.3046			
91	LF-402	100741.5885	281819.0935	6.06	9.20	8.96
92	Monument	103168.6804	282837.4844			
93	CN-9	104286.8740	283098.0019	22.34	22.42	22.12
94	BH-302	104282.5660	283085.2923	21.99		
95	BH-303	104276.8672	283095.0227	22.02		
96	BH-303A	104279.8366	283097.7774	21.94		
97	BH-301	104295.0567	283097.2473	22.36		
98	BH-304	104297.1718	283112.6211	22.35		
99	Crn. Court	104402.9034	283131.0555			
100	Crn. Court	104320.2251	283067.8395			
101	Crn. Court	104360.7487	283013.7132			
102	Edge Pvmt.	104330.5822	283031.4568			
103	Edge Pvmt.	104243.2799	283074.2269			
104	Edge Pvmt.	104274.3242	283134.2963			

LOUIS FEDERICI and ASSOCIATES

365 Smith Street, Providence, RI 02908 Tele: 401-331-1570 Fax: 401-331-1593

land surveyors biologists planners

LFA PT. NO.	WESTON I.D.	NORTHING	EASTING	EXISTING GRADE	TOP OF CASE	TOP OF PVC
105	Edge Pvmt.	104310.6715	283170.2692			
106	Monument	102398.3200	285418.5700	10.28		
107	Cl. Drive	102412.8191	285460.2024			
108	Cl. Drive	102363.7311	285572.0152			
109	Cl. Drive	102304.7702	285672.4875			
110	Cl. Drive	102283.3341	285714.2070			
111	Cl. Drive	102276.9590	285778.3203			
112	Cl. Drive	102292.2024	285808.0360			
113	Cl. Drive	102340.8558	285845.1175			
114	Cl. Drive	102431.4919	285884.4533			
115	Cl. Drive	102553.5434	285985.8007			
116	**CN-08**	102464.4519	285871.3325	**5.92**	**7.82**	**7.53**
117	LF-202	102443.0481	285863.0086	**7.16**		
118	Cl. Drive	102476.2228	285917.1988			
119	Cl. Drive	102539.6718	285493.6905			
120	Cl. Drive	102671.1899	285514.3786			
121	LF-201	102655.0391	285670.7399	7.49	9.89	9.73
122	CN-16	102636.2009	285846.8225	**6.57**	**9.27**	**9.07**
123	Cl. Drive	102621.8639	285852.1136			
124	Cl. Drive	102657.9064	285793.2563			
125	Cl. Drive	102676.9407	285739.8775			
126	Cl. Drive	102695.2252	285645.8518			
127	Cl. Drive	102699.1918	285607.0940			
128	**CN-07**	**102503.2038**	**285920.6086**	**5.86**	**8.26**	**7.99**
129	**CN-06**	**102545.5014**	**285916.4841**	**6.65**	**9.40**	**9.15**

NOTE:

1. THOSE VALUES IN BOLD SCRIPT ARE REVISED VALUES.

REVISION:

1. 2/3/99 CHANGED ELEVATION LFA POINTS 116 AND 117.
   AND ADDED LFA POINTS 128 AND 129.

Louis Federici PLS

RI Reg. No. 1646

APPENDIX F

GROUNDWATER SAMPLE FIELD SCREENING DATA

APPENDIX F

GROUNDWATER FIELD SCREENING PARAMETERS
Former NALF - Site 8
Charlestown, Rhode Island

Well ID	Parameter									
	Sampling Date	Initial Depth To Water (ft)	Final Depth To Water (ft)	PID (ppm)	Temperature (C)	Spec. Conduc. (uS/cm)	pH	OPR/Eh (mv)	DO mg/L	Turbidity (NTU)
GSA-1	12/2/98	18.72	19.42	7	13.5	0.058	6.57	-210	0.74	4.63
	12/8/98	18.81	19.90	28	11.5	0.04	6.76	-333	5.0*	58
GSA-2	12/8/98	15.61	18.08	2.4	11.0	0.19	6.56	-263	4.7*	12.2
GSA-3	12/2/98	16.54	NA	21	11.6	0.011	6.18	-204	2.81	33.5
	12/8/98	16.62	20.10	25	11.0	0.005	6.28	-387	4.6*	79
GSA-4	12/2/98	17.23	NA	62	12.0	0.23	6.01	-91	1.45	1.01
	12/8/98	17.32	17.38	72	11.4	0.009	6.00	-359	4.7*	1.8
GSA-5	12/8/98	18.29	18.30	0.3	10.9	0.067	6.24	-498	4.5*	16.5
CN-12	12/2/98	17.23	17.25	29	12.5	0.040	6.46	-212	0.86	0.84
	12/8/98	17.33	17.41	22	12.0	0.11	6.53	-339	4.9*	2.6
CN-13	12/8/98	17.50	18.10	196	11.7	0.571	6.75	-358	4.8*	2.05

PID = Photo Ionization Detector
OPR = Oxidation Reduction Potential (stand in for Eh)
DO = Dissolved Oxygen
Depth To Water measured from top of inner casing
NA=Not analyzed.
*Note: Dissolved oxygen measurements taken on 12/8/98 are suspect. It appears that the probe malfunctioned.

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

21.64
18.72
2.92

18.72
1.46
20.18

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-1 Date 12/1/98
Field Personnel V. DelloRusso
Sampling Organization WESTON
Identify MP TIC PVC

Depth to 11.6 / 21.64 of screen 2.92' of saturation
(below MP) top bottom 1.46'
Pump Intake at (ft. below MP) 20.2' TIC
Purging Device; (pump type) Peristaltic.

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	Cum. Volume Purged (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
0926	18.72			Ppm							Initial
1015	18.86	2	200 ml/min								Turb cal 0.02 reads 0.02
1020	19.23	2	200 ml/min	12	14.4°C	0.30	6.59	-64	Probe not	19.0	
1025	19.40	2	200 ml/min	10	13.8	0.02	6.65	-102	working	18.7	
1035	19.46	1	100 ml/min	14	14.0	0.039	7.08	-110	New probe	13.6	
1055	19.54	1.5	150 ml/min	15	14.0	0.041	6.68	-161	1.78	3.75	well recovery slightly
1100	19.52	1.5	150 ml/min	16	13.8	0.043	6.61	-168	1.62	2.65	clear, slight pen odor
1120	19.40	1.5	150 ml/min	5	13.8	0.049	6.60	-198	1.15	5.19	
1130	19.42	1.5	150 ml/min	7	13.5	0.058	6.57	-210	0.74	4.63	
1130 collected		Sample	M001-	1298	Triple volume for	VOC + Pb	MS/MSD				
					Single volume for	Alk, Sulf, Nitr, Ferrous Iron					
Chemical							2.0 cal Turb	Dilution			
Calibrations						0.787	7.12	-19			

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

21.8 ft sat

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-1 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP Top of inner casing

Depth to 11.6 / 21.64 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 20.3'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged (liters)~~	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
Initial	18.81			PID ppm							
1510	19.1	1	~150 ml/min	20	11.6	0.126	6.78	-314	5.0	74	VSL cloudy - Petrol sheen
1515	19.6	1	150	26	11.6	0.131	6.77	-322	5.0	67	↓
1520	19.8	1	↓	18	11.6	0.128	6.77	-330	5.0	63	↓
1530	19.9	1	↓	28	11.5	0.040	6.76	-333	5.0	58	↓
1535	collected Sample for ferrous Iron only.										

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-2 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP

Depth to ____/____ of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 19.8'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged (liters)~~ P	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
Initial	15.61			PID ppm							
842	15.61										
0850	17.5	0.75	200 ml/min	0.9	10.6	0.54	6.71	-274	4.6	>200	sl cloudy pale gray brn
0900	17.63	0.75	200 ml/min	1.6	10.8	0.157	6.69	-262	4.6	132	slight organic odor
0917	18.06		200	2.3	10.9	0.211	6.56	-271	4.7	46	sl odor
0928	18.07		200	2.3	11.0	0.198	6.56	-263	4.7	31.3	vv slightly
0935	18.08		200	2.4	11.0	0.192	6.52	-262	4.7	23.2	clear
0940	18.08		200	2.2	11.0	0.188	6.55	-265	4.7	16.6	clear
0950	18.08		200	2.4	11.0	0.190	6.56	-263	4.7	12.2	clear
0950	collected sample										

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

Pump giving pulsing motion
Lowest setting possible!

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

26.55 16.54
16.54 +5.00
10.01 21.54'

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-3 Date 12/2/98
Field Personnel
Sampling Organization WESTON
Identify MP PVC TIC

Depth to 11.5 / 26.55 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 21.54'
Purging Device; (pump type) Peristaltic pump

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	Cum. Volume Purged (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
931	16.54			~~PID ppm~~							Initial
1500	dry	4 1/2	400 ml/min	43	11.9	0.020	6.21	-226	3.95	87.7	sl cloudy pale yellow sl petrol odor
1510	probably dry	3	300 ml/min	64	11.9	0.022	6.17	-269	2.44	63	v sl cloudy
1520		2 1/4	200 ml/min	60	11.7	0.012	6.17	-246	2.59	186	sl cloudy yellow
1530		2	200 ml/min	31	11.7	0.010	6.21	-244	2.60	230	sl cloudy yellow
1535		1 3/4	150 ml/min	21	11.6	0.011	6.18	-204	2.81	99.1	vsl cloudy slight odor
							cleared up well			33.5	Final turb. before collecting Pb
1535	Sampled for VOC, Pb, Alk, SO4, Fe, Nitrate										
			VOC @ 200 ml/min								

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-3 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP

Depth to 11.5 / 26.5 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 21.6'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged~~ (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
Initial	16.62			PID PPM							
1440	17.4	1	~150 ml/min	15	11.1	0.004	6.28	-360	4.6	158	cl cloudy slight petrol odor
1445	18.6	1	↓	18	11.1	0.005	6.29	-375	4.6	133	↓
1450	19.4	1	↓	22	11.1	0.006	6.29	-383	4.6	120	↓
1455	19.8	1	↓	25	11.1	0.007	6.29	-386	4.6	86	clearer slightly cloudy slight odor
1500	20.1	1	↓	15	11.0	0.005	6.28	-387	4.6	79	same
~~1500~~											
1500		Sampled for Fenton Form only									

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

12.1 / 27.13 — 17.23 / 4.9 — 9.9 / 2 = 4.95 — 17.23 − 4.95 = 22.18

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-4 Date 12/2/98
Field Personnel
Sampling Organization WESTON
Identify MP PVC TIC

Depth to 12.1 / 27.13 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 22.18'
Purging Device; (pump type) Peristaltic

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	Cum. Volume Purged (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
0929	17.23			210 ppm							
1410	pump	5	500 ml/min	81	12.2	0.022	6.35	-057	4.02	4.25	clear, slight petrol odor
1420	NT	5	500 ml/min	43	12.1	0.021	6.01	-077	1.13	0.73	clear
1430	working	5	500 ml/min	56	12.1	0.023	6.00	-081	1.32	0.86	clear slight petr. odor
1440		5	500 ml/min	48	12.1	0.24	5.98	-88	1.62	0.99	clear
1445		5	500 ml/min	62	12.0	0.23	6.01	-91	1.45	1.01	clear
1445		Collected	Sample	For VOC, Pb, Alk, Ferrous Iron, SO4, Nitrate							
				VOC collected @ 250 ml/min							

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

12.32

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-4 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP

Depth to 12.1 / 27.13 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 22.2'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	Cum. Volume Purged (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
Bottle	17.32			710 ppm							
1400	17.38	5	500ml/min	60	11.4	0.007	6.08	-335	4.7	2.1	clear trace gas - little odor
1405	steady			54	11.4	0.009	6.01	-353	4.7	1.09	clear
1410				66	11.4	0.010	6.01	-356	4.7	1.6	
1415				45	11.4	0.009	6.00	-357	4.7	2.1	
1420				72	11.4	0.009	6.00	-359	4.7	1.8	
1420	collected sample										
				Sample for Ferrous Iron only							

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

Location (Site/Facility Name) Charlestown Former NALF
Well Number GSA-5 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP

Depth to _____/_____ of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 45'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged (liters)~~	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
Initial	18.29			810 ppm							
1057	18.30	9	750 ml/min	0.9	10.6	0.066	7.39	-269	4.5	>200	Cloudy gray, no odor
1115	Steady	10		0.6	10.8	0.093	7.28	-256	4.5	103	Slightly gray
1125		10		0.3	10.8	~~0.039~~ -0.05	6.41	~~-260~~ -188	4.5	30.1	cleared up quickly vs high pH odor.
1135				0.3	10.9	0.006	6.28	~~-188~~ -445	4.5	15.9	clear no odor
1145				0.3	10.9	0.074	6.26	-494	4.5	18.2	clear no odor
1150				0.3	10.9	0.067	6.24	-498	4.5	16.5	clear no odor
1150	Collected sample										

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

Location (Site/Facility Name) Charlestown Former NALF
Well Number CN-12 Date 12/2/98
Field Personnel U. Dell, Russo
Sampling Organization WESTON
Identify MP PVC TIC

Depth to 15 / 25' of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 21.11'
Purging Device; (pump type) Peristaltic

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged~~ P (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
0928	17.23	~~7~~	~~700 ml/min~~	PID PPM							Initial
1250	17.23	7	700 ml/min	12	12.7	0.027	6.45	-186	2.21	2.06	mod petrol odor - clear
1300	17.25	7	700 ml/min	20	12.6	0.030	6.45	-189	1.68	1.98	" clear
1310	17.25	7	700 ml/min	29	12.5	0.034	6.44	-205	0.98	0.56	clear
1330	17.25	7	700 ml/min	14	12.5	0.040	6.46	-212	0.86	0.84	clear
1330	collect	Samples / Duplicate / and QA-Dup for all parameters.									
				WC, Pb, Alk, Sulf, Nitr, Ferrous iron.							
			Purge rate during sampling was 300 ml/min for VOCs								
			1355 completed sampling								

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

Location (Site/Facility Name) Charlestown Former NALF
Well Number CW-12 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP

Depth to 15 / 25 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 21'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged (liters)~~	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
Initial	17.33			PID ppm							
Begin purge 1305	17.41										
1310	steady	10	750ml/min	18	11.9	0.12	6.52	-265	4.7	6.5	clear MOD org. odor
1325	steady	10	750	21	12.0	0.111	6.54	-271	4.9	2.86	clear
1335	—	10	750	20	12.1	0.157	6.53	-332	5.0	2.4	clear
1340	↓	↓	↓	18	12.0	0.140	6.53	-338	4.9	2.8	clear
1345	↓	↓	↓	22	12.0	0.110	6.53	-339	4.9	2.6	clear
1350	collected sample for										
	Sample for Ferrous Iron 3500D only + Dup + QA Dup.										
				VOC Fill rate @ 200 ml/min							

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

g:\projects\11606001\004\wellpar.xls

WELL PURGING - FIELD WATER QUALITY MEASUREMENTS FORM
Former NALF
Charlestown, Rhode Island

21.8
-17.5
4.3 set 2.1'

Location (Site/Facility Name) Charlestown Former NALF
Well Number CN-13 Date 12/8/98
Field Personnel
Sampling Organization WESTON
Identify MP

Depth to 11.8 / 21.8 of screen
(below MP) top bottom
Pump Intake at (ft. below MP) 19.6'
Purging Device; (pump type)

Clock Time (24 HR)	Water Depth Below MP (ft)	Pump Dial[1]	Purge Rate (ml/min)	~~Cum. Volume Purged~~ (liters)	Temp. (C) (3%)	Specific Conduc.[2] (uS/cm) (3%)	pH (+/-0.1)	ORP/ Eh[3] (mv) (+/-10)	DO (mg/L) (10%)	Turbidity (NTU) (10%)	Comments
initial	-17.5'	No Apparatus		PID PPM							
1210	18'8.5"	3	*200 ml/min	450	11.3	0.550	6.75	-276	4.8	13.6	clear strong petrol odor No sheen
1215	18'10"	2	200 ml/min	309	11.6	0.572	6.72	-301	4.8	6.3	clear strong odor
1220	Steady	2	200 ml	227	11.6	0.579	6.70	-317	4.8	5.2	clear
1225	Steady	2	200	235	11.7	0.572	6.74	-344	4.8	2.99	v clear
1230	Steady	2	200	196	11.7	0.571	6.75	-358	4.8	2.05	clear
1235	Sampled										

1205 Begin purging

1. Pump dial setting (for example: hertz, cycles/min, etc)
2. uSiemens per cm (same as umhos/cm) at 25C
3. Oxidation reduction potential (stand in for Eh)

minimum purge rate - 200 ml/min

g:\projects\11606001\004\wellpar.xls

APPENDIX G

INVESTIGATION DERIVED WASTE MANIFEST PACKAGE

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No.: MP9783188452 — Manifest Document No.: 62772
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: DOD (DERP-FUDS) C/O ARMY CORP. 696 VIRGINIA RD. NEW CONCORD MA 01742-2751
4. Generator's Phone (978) 318-8452

A. State Manifest Document Number: MA K062772
B. [illegible] PARK, (OLD POST RD.) CHARLESTOWN, RI 02813
C. State Trans. ID: 30400 MA
D. Transporter's Phone (508) 384-6151
E. State Trans. ID:
F. Transporter's Phone:
G. State Facility's ID: Not Required
H. Facility's Phone (401) 781-6340

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SVCS, INC.
6. US EPA ID Number: MAD084814136
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Mailing Address: NORTHLAND ENVIRONMENTAL 275 ALLENS AVENUE PROVIDENCE RI 02905
10. US EPA ID Number: RID040098352

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ WASTE Flammable liquids, n.o.s.(GASOLINE), 3, UN1993, PG II (D001,D008,D018)	001	DM	00020	G	D001 D008 D018
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.) (L,I,K) FREE WATER FROM WELL
a.
b.

K. Handling Codes for Wastes Listed Above
a.
b.

15. Special Handling Instructions and Additional Information: EMERGENCY CONTACT: 1-800-535-5053
a. ERG#128; 3D41584

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible] as agent for the	[illegible]	08 28 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
STEPHEN S VINGI	Stephen S Vingi	08 28 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)

GENERATOR — TRANSPORTER — FACILITY

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

MA K062772 COPY>8: GENERATOR RETAINS

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>8: GENERATOR RETAINS

LAND DISPOSAL RESTRICTION FORM

Generator Information: **DOD (DERP-FUDS) C/O ARMY CORP.**
NINIGRET PARK. (OLD POST RD.)
CHARLESTOWN, RI 02813
EPA ID #: **MP9783188452**

Name of Waste: **PERGE WATER FROM WELL** Waste Code(s): **D001 D008 D018**

Profile Number: **3D41584**

State Manifest Number: **MAK062772 Line Item a** Federal Manifest Number:

Treatability Group: **Non-Wastewater**

A. F001-F005 Solvent Restrictions

There are no F001-F005 solvent restricted wastes present that are banned from land disposal under 40 CFR 268.30.

B. Other Regulated Waste Notification

This section includes all wastes restricted from land disposal not included in other sections. If any treatment standards reference 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code(s)	Waste Description and Treatment Regulatory Subcategory	Hazardous Constituent(s)	Total Concentration in mg/l (WW), mg/kg (NWW); Technology Code or Referenced Treatment Standard
D008	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for lead based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Lead	
D018	Wastes that are TC for Benzene based on the TCLP in SW846 Method 1311.	Benzene	

C. D001-D003

If any treatment standards reference 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code(s)	Waste Description and Treatment Regulatory Subcategory	Hazardous Constituent(s)	Total Concentration in mg/l (WW), mg/kg (NWW); Technology Code or Referenced Treatment Standard
D001	High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) Greater than or equal to 10% total organic carbon. (Note: The subcategory consists of nonwastewaters only.)	NA	

D. Underlying Hazardous Constituents

This section contains the list of all constituents listed in 268.48, Table UTS - Universal Treatment Standards, except vanadium and zinc, which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard.

Hazardous Constituent(s)	Total Concentration mg/kg, unless otherwise specified
Lead	0.75 mg/l TCLP

E. Non-Hazardous/Non-Restricted Waste

There are no EPA waste codes that are not subject to land disposal restrictions as specified in 40 CFR 268, Subpart D or applicable prohibitions in 40 CFR 268.32 or RCRA Section 3004(d).

Certification(s)

I hereby certify that all information submitted in this and all attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Name Vincent DelloRusso As Agent for the Department Title
Signature [signature] of Defense Date February 22, 1999

PHILIP SERVICES

Industrial Services Group

Northeast Region • Mid Atlantic Area

January 22, 1999

Glenn Topping
Franklin Environmental
P. O. Box 617
185 Industrial Rd.
Wrentham, MA 02093

Dear Glenn:

RE: **Gasoline and water**
Lab Code No. **3D41584**
Generator: Dod (derp Fuds)

Philip Services Corporation is pleased to provide this quotation for the above waste material. Based on a review of the information and or analytical data provided we have determined that Philip Services has the capability, capacity and possesses the necessary insurance and permits to dispose of those waste materials in accordance with all federal, state and local regulations.

Our pricing does not include any federal, state or local taxes and/or fees imposed by environmental regulations unless otherwise indicated below.

FOB, Northland, Providence, RI $ franklin to deliver

TSD Destination Facility - Philip Services Corporation
Northland Division
275 Allens Avenue
Providence RI 02905-5003

In addition, the pricing is based on the following parameters :

- Catagory ILI1	
- BTU's, per pound	<5,000
- Free Flowing liquid, %	>98
- pH	5-9
- Total Halogens, %	<0.5
- Debris,	None
- PCB's,	None

Variations from the parameters may result in additional charges.

Special Conditions:

FROM :FRANKLIN ENV TO : 6036565401 1999.02-03 13:30 #168 P.02/02

PHILIP SERVICES

Industrial Services Group

Northeast Region • Mid Atlantic Area

January 22, 1999

RE: Gasoline and water
Lab Code No. 3D41584
Generator: Dod (derp Fuds)

- Drums must be of sound structure, non-leaking and conform to all DOT requirements. Drums that need to be repackaged will carry additional charges
- Drums must be labeled in accordance with all DOT requirements and the lab code number must appear on drum label as well as shipping documents.
  This quotation is based on containers greater than 30 to 55 gallons, greater than 5 to 30 gallons will be billed at 70%, and 5 gallon containers will be billed at 50% of the quoted price (min.$50). Drums in 85 gallon overpacks will be surcharged 45%.

The material must be in conformance with the generators Waste Characterization Report (WCR) and prior approval analysis. Waste not conforming to this criteria could incur additional charges. Philip Services will notify you of any discrepancies that occur to discuss possible paperwork and/or pricing adjustments as they become available.

A copy of our general terms and conditions is included. Please contact our Customer Service Department at (401)781-6340 to schedule your shipment. By scheduling your shipment you acknowledge that you have read and agree to all terms and pricing stated herein.

We appreciate this opportunity to provide your company with our services. Should you have any further questions, do not hesitate to contact our Customer Service Department.

Sincerely,

Daniel J. Ziobro
Sales Representative

FROM :FRANKLIN ENV TO : 6036565401 1999.02 03 13:30 #188 P.03/03

DC ... #CHRI-020299-AAAG

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

JAN 19 1999
ROY F. WESTON, INC.

REPLY TO
ATTENTION OF

January 13, 1999

Engineering Management Branch

SUBJECT: Contract No. DACW33-94-D-0009, Task Orders No. 28 and 36

Mr. Richard Kraybill
Roy F. Weston, Inc.
One Wall Street
Manchester, New Hampshire 03101-1501

Dear Mr. Kraybill:

I hereby authorize Roy F. Weston (Weston) to sign manifests, on behalf of the U.S. government, for Investigative Derived Waste (IDW) generated during remedial investigation activities at Sites Number 2, 4, 6, and 8 at the Former Naval Auxiliary Landing Field, Charlestown, Rhode Island.

The IDW resulted from the advancement of soil borings, installation and development of monitoring wells, sampling and related activities at the sites conducted by Roy F. Weston personnel under the subject task orders.

At each signature line the following must appear with the name of Weston's representative: "As Agent for the Department of Defense." Please verify that all information on the manifest is correct and that all transporters/disposal facilities are qualified prior to signing the manifest. This verification will be based on: historical data provided to Weston by the U.S. Army Corps of Engineers, New England District, any appropriate chemical data from analyses of samples collected by Weston and analyzed by Weston's contract laboratory, and observations made by Weston personnel during field investigations at the site.

If there are any questions, please contact Mr. Peter Hugh, of my staff, at (978) 318-8452.

Sincerely,

Kenneth E. Hitch

Kenneth E. Hitch, P.E.
Chief, Engineering/Planning Division

NORTHLAND ENVIRONMENTAL, INC.

275 Allens Avenue
Providence, RI 02905-5003
Tel.: (401) 781-6340 FAX: (401) 781-9710

PROFILE 24775
SALES REPRESENTATIVE:

Generator Waste Profile Form

A. GENERAL INFORMATION

GENERATOR NAME: DOD (DERP-FUDS) c/o Army Corps (the one appear on manifest)

FACILITY ADDRESS: New England District, 696 Virginia Road, Concord MA 01742-2751

BILL TO: Franklin Environmental, Inc. (Transporter)

CUSTOMER CONTACT: Rich Lyons

CUSTOMER PHONE: (508) 384-6151

GENERATOR U.S.EPA ID#:

GENERATOR CONTACT: Peter Hugh TITLE: Engineering Manager PHONE: (978) 318-8452

GENERATORS COMMON NAME FOR WASTE: WASTE GASOLINE AND WATER

PROCESS GENERATING WASTE: TANK CLEANOUTS / BOTTOM PUMP OUTS

B. PHYSICAL CHARACTERISTICS OF WASTE

VISCOSITY	COLOR	ODOR	PHYSICAL STATE @ 70°F	LAYERS
☐ HIGH ☐ MED ☒ LOW	VARIES	☐ NONE ☐ MILD ☒ STRONG DESCRIBE: GAS	☐ THICK VISCOUS LIQUID ☐ LIQUID WITH NO SETTLED SOLIDS ☒ LIQUID WITH LESS THAN 10% SETTLED SOLIDS ☐ LIQUID WITH GREATER THAN 10% SETTLED SOLIDS ☐ SOLID WITHOUT FREE LIQUIDS ☐ POWDER/DUST/ASH ☐ SOIL	☐ MULTI-LAYERED ☒ BI-LAYERED ☐ SINGLE PHASED ☐ EMULSION

FREE LIQUIDS	SPECIFIC GRAVITY AT 70°F		FLASH POINT		pH	
☒ YES ☐ NO VOLUME 100 %	☐ < .8 ☒ .8-1.0 ☐ 1.0-1.3	☐ N/A ☐ 1.3-1.6 ☐ > 1.6	☒ < 70°F ☐ 70-100°F ☐ 101-140°F	☐ 141-200°F ☐ > 200°F ☐ None	☐ 0-2 ☐ 2.1-4 ☐ 4.1-6.9 ☐ Neutral (7)	☐ N/A ☐ 7.1-10 ☐ 10.1-12.5 ☐ > 12.5

pH 5-10

C. COMPOSITION (INCLUDE INERT COMPONENTS, DEBRIS, ROCKS, PIPES)

(must total 100%)

GASOLINE	50 %
WATER	50 %
	%
	%
	%
	%
	%
	%
	%

H. METALS ☒ TOTAL (PPM) ☐ TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

ARSENIC (As)	<5.0	SELENIUM (Se)	<1.0
BARIUM (Ba)	<100	SILVER (Ag)	<5.0
CADMIUM (Cd)	<1.0	COPPER (Cu)	N/A
CHROMIUM (Cr)	<5.0	NICKEL (Ni)	
CHROMIUM HEX (Cr + 6)	<5.0	ZINC (Zn)	
LEAD (Pb)	<5.0	TIN (Sn)	
MERCURY (Hg)	<0.2	OTHER	

I. OTHER COMPONENTS

	No	Yes	Total ppm		No	Yes	Total ppm
PCB's	☒	☐		Chelators	☒	☐	
Cyanides	☒	☐		Reactives	☒	☐	
Sulfides	☒	☐		Oil & Grease	☒	☐	
Pesticides	☒	☐		Biological	☒	☐	
Phenolics	☒	☐		OSHA Carcinogens	☐	☒	BENZENE
Dioxins	☒	☐		F001-F005 Solvents	☒	☐	

D. DEPT. OF TRANSPORTATION SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ☒ YES ☐ NO (GASOLINE)

D.O.T. SHIPPING NAME: GASOLINE, WASTE FLAMMABLE LIQUIDS, N.O.S.

D.O.T. HAZARD CLASS: 3 PG II

UN/NA #: UN1993 REPORTABLE QUANTITY VALUE: 10 lbs

E. SHIPMENT METHOD

☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (SIZE) 55 GALLON

☐ OTHER (SPECIFY)

F. ANTICIPATED VOLUME

VARIES ☐ GALS. ☐ DRUMS ☐ TONS

PER ☐ ONE TIME ☐ MONTH ☐ QUARTER ☐ YEAR

G. WASTE DISPOSAL STATUS

U.S. EPA HAZARDOUS WASTE ☒ YES ☐ NO WASTE NUMBER(S): D001, D018, D008

STATE HAZARDOUS WASTE ☒ YES ☐ NO WASTE NUMBER(S): D001, D018, D008

J. SAMPLE STATUS

☐ REPRESENTATIVE SAMPLE HAS BEEN SUPPLIED

NORTHLAND ENVIRONMENTAL, INC. HAS WAIVED THE SAMPLE REQUIREMENT FOR THE FOLLOWING REASON

☒ WASTE HAS BEEN PREVIOUSLY RECEIVED BY NORTHLAND ENVIRONMENTAL, INC.

K. OTHER COMMENTS (FOR CUSTOMER'S USE)

L. FOR NORTHLAND ENVIRONMENTAL, INC.

NET CODE: TLEY

I hereby certify that all information submitted to this and all attached documents is complete and accurate to the best of my knowledge and that all known or suspected hazards have been disclosed including any Total Toxic Organics as outlined in the Federal Register. I also certify that the waste is not radioactive, pyrophoric, infectious, explosive or shock sensitive, ~~and certify that the sample submitted is a representative of the waste stream described herein~~. To the best of my knowledge. Although not specifically analyzed for these characteristics.

GENERATOR SIGNATURE: As Agent for the Department of Defense NAME (PRINT): Vincent DellaRusso DATE: 1/15/99

DISTRIBUTION OF COPIES — Retain the gold copy for your records. Send all remaining sheets to Northland Environmental, Inc.

Franklin

185 Industrial Road
P.O. Box 617
Wrentham, MA 02093

Waste Profile Certification

Project Name: Phase II Engineering Evaluation of Contamination at the Former Naval Auxiliary Landing Field. Charlestown, Rhode Island – Site 8

Contractor: Roy F. Weston, Inc. (WESTON) **Site No.:**
Contract No.: DACW33-94-D-0009 **Delivery Order No.:** 0028
Transporter: Franklin Environmental Services. Inc.,185 Industrial Road,Wrentham, MA
EPA ID: MAD084814136
Disposal Facility: Northland Environmental, Inc., 275 Allens Avenue, Providence, RI
EPA ID: RID040098352
Profile No(s).: 24775

Description of Waste(s): Waste described in the attached profile consists of investigation-derived gasoline/water mixture purged from on-site monitor well CN-13. The profiled waste includes the following: One 55-gallon drum of leaded gasoline and water mixture (profile no. 24775), classified as EPA and State-regulated hazardous waste under codes D001, D008 (lead), and D018 (benzene).

Characterization Logic Summary: Available site history information indicates that the source of contamination at the site is from a past release of leaded gasoline associated with a former 25,000 gallon underground storage tank which most likely stored aviation fuel. Attached results of volatile organic compounds (VOCs) and lead analyses of a water sample collected from the product-bearing well by WESTON during the investigation were used for characterization of these wastes. The analyses performed and samples analyzed are considered representative of the described waste stream. A review of these results, in addition to site historical information, was considered sufficient for completing the waste profiles, and does not warrant further analytical sampling of the waste for disposal characterization. Based on historical site information these wastes are not known or suspected to be radioactive, pyrophoric, infectious, explosive, or shock sensitive, although these characteristics were not specifically analyzed in these wastes.

Certification

As an agent for the U.S. Army Corps of Engineers, New England Division, I certify that in preparing the attached waste profile sheet, appropriate efforts were made to properly identify the listed waste streams (e.g., reviewing generator-supplied site documentation or, if such documentation is unavailable, interviewing the generator or any past site workers present when the waste was disposed to ascertain the origin of the waste, ensuring appropriate contaminants were selected for analysis, reviewing analytical results, etc.). If a transporter is being used for transport of the subject wastes, I certify that the packaging, marking, labeling, handling, and placarding of waste complies with federal, state, and local laws and regulations and that it correlates with the waste

classification and quantities designated on the manifest prior to signature of the transporter.

WESTON, Senior Geologist

1/12/98
Date