DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND, MID-ATLANTIC
9742 MARYLAND AVENUE
NORFOLK, VA 23511-3095

IN REPLY REFER TO:
PUBLIC WORKS DEPARTMENT MAINE
ROICC BRUNSWICK NAVAL AIR STATION
437 HUEY DRIVE, BLDG. 53
BRUNSWICK, ME 04011

4280
Ser 0284/R10
November 5, 2007

Mr. Mike Daly
Project Manager
Federal Facillities Superfund Section
United States Environmental Protection Agency (EPA)
1 Congress Street, Suite 1100 (HBT)
Boston, MA 02114-2023

Ms. Claudia Sait
Project Manager
Maine Department of Environmental Protection (MEDEP)
Bureau of Remediation & Waste Management
17 State House Station
Augusta, ME 04333-0017

SUBJECT: Sample Results for Ash Pile 6 for Site 9 Removal Action at Naval Air Station Brunswick, Maine

Dear Mr. Daly and Ms. Sait:

Enclosed you will find the lab results from sampling of ash piles labeled P6-1a, P6-2a and P6-3a performed in accordance with the Final Letter Workplan for the subject contract. According to the results of the piles sampled and analyzed, none of the values exceed the respective TCLP value (or estimated value using the 20x rule). Since the TCLP values were not exceeded, none of the piles require hazardous waste disposal, but are deemed special waste. Based on these results, the Navy intends to dispose of this material as special waste.

If you have any questions or comments, please contact the Navy's RPM, Lonnie Monaco, at (215) 897-4911 or myself at (207) 921-2325.

Sincerely,

Joseph Gallant
Supervisory General Engineer

RC&D Restoration • Construction • Development

RC&D, Inc.
17 Gordon Avenue, Suite 205
Providence, RI 02905

(401) 270-5483 (ph)
(401) 270-5486 (fax)

November 1, 2007

Bruce Newman
OAK Group
200 Federal Street
Suite 300
Camden, NJ 08103

Dear Bruce:

Attached are sample results for ash piles that have been broken down into three separate, 500-ton piles at the site. These piles are labeled P6-1a, P6-2a and P6-3a. The samples were collected and chemical analyses were performed in accordance with the Final Letter Workplan (September 2007).

For the total VOC analyses, a separate table has been prepared to compare the Total VOC concentrations with the TCLP limits using the "20 times" rule. The results are attached and indicate that the materials meet the requirements for disposal as special waste. Disposal of these materials is scheduled to begin next week.

Sincerely,
RC&D, Inc.

David E Egan

David Egan, President

VOC TCLP Summary Table - P6-1A, P6-2A, P6-3A

ANALYTE	EPA HW #	TCLP Limit (mg/L)	20x TCLP Limit (mg/kg)	S9-P7-3A Total VOCs (mg/kg)	S9-P7-4A Total VOCs (mg/kg)	S9-P8-4A Total VOCs (mg/kg)
Benzene	D018	0.5	10	<0.01	<0.01	<0.01
Carbon Tetrachloride	D019	0.5	10	<0.01	<0.01	<0.01
Chlorobenzene	D021	100.0	2000	<0.01	<0.01	<0.01
Chloroform	D022	6.0	120	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	D027	7.5	150	<0.01	<0.01	<0.01
1,2-Dichloroethane	D028	0.5	10	<0.01	<0.01	<0.01
1,1-Dichloroethene	D029	0.7	14	<0.01	<0.01	<0.01
Methyl Ethyl Ketone	D035	200.0	4000	<0.17	<0.18	<0.18
Tetrachloroethene	D039	0.7	14	<0.01	<0.01	<0.01
Trichloroethene	D040	0.5	10	<0.01	<0.01	<0.01
Vinyl Chloride	D043	0.2	4	<0.01	<0.01	<0.01

Notes:

1) Values are reported as actuals or less than ("<") Laboratory MDLs.

2) "**Bold**" indicates exceedance of TCLP Regulatory Limit by 20x Equivalent Rule

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Rob Schuster
RC & D
17 Gordon Avenue, Suite 205
Providence, RI 02905-1952

RE: BNAS
ESS Laboratory Work Order Number: 0710357

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: October 26, 2007

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Sample Receipt
The following sample(s) were received on October 19, 2007 for the analyses specified on the enclosed Chain of Custody Record.

Laboratory ID	Matrix	Client SampleID
0710357-01	Soil	S9-P6-1A
0710357-02	Soil	S9-P6-2A
0710357-03	Soil	S9-P6-3A
0710357-04	Solid	Trip blank

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Methanol

0710357-01	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.**
0710357-02	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.**
BJ72609-BSD1	**Relative percent difference for duplicate is outside of criteria.**
	Trichlorofluoromethane

Maine 4.1.25 Diesel Range Organics

BJ72333-BSD1	**Blank Spike recovery is below lower control limit.**
	Decane (C10)

Maine 4.2.17 Gasoline Range Organics / Methanol

0710357-01	**Present in Blank.**
	Gasoline Range Organics
0710357-02	**Present in Blank.**
	Gasoline Range Organics
0710357-03	**Present in Blank.**
	Gasoline Range Organics

No other observations noted.

End of Project Narrative.

CHEMTECH

CASE NARRATIVE

ESS Laboratory, inc.
Project Name: Atlas
Project # N/A
Chemtech Project # Y4978

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 10/20/07.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: and TCLP Herbicides. This data package contains results for TCLP Herbicides.

C. Analytical Techniques:
The analyses were performed on instrument GCECD 8. The front column is RTX-CLPest which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 11139. The rear column is RTX-CLPestII which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog # 11324.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes Name: Mildred V. Reyes

Date: 10/25/07 Title: QA/QC

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 100
Final Volume: 5
Extraction Method: 3510C

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/24/07
TCLP Date: 10/22/07

1311/8081A Pesticide TCLP Compounds

Analyte	Results	Units	MRL	TCLP Limit	DF	Analyzed
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	10/24/07
Endrin	ND	mg/L	0.0005	0.02	1	10/24/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	10/24/07
Heptachlor	ND	mg/L	0.0005	0.008	1	10/24/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	10/24/07
Methoxychlor	ND	mg/L	0.0005	10	1	10/24/07
Toxaphene	ND	mg/L	0.0130	0.5	1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil

TCLP Date: 10/22/07

1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/L	0.25	1311/6010B	5	5	SVD	10/24/07	50	50
Barium	**0.41**	mg/L	0.25	1311/6010B	100	5	SVD	10/24/07	50	50
Cadmium	ND	mg/L	0.025	1311/6010B	1	5	SVD	10/24/07	50	50
Chromium	ND	mg/L	0.10	1311/6010B	5	5	SVD	10/24/07	50	50
Lead	**0.36**	mg/L	0.10	1311/6010B	5	5	SVD	10/24/07	50	50
Mercury	ND	mg/L	0.0005	1311/7470A	0.2	1	JP	10/25/07	20	40
Selenium	ND	mg/L	0.50	1311/6010B	1	5	SVD	10/24/07	50	50
Silver	ND	mg/L	0.050	1311/6010B	5	5	SVD	10/24/07	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil

1311/8151A TCLP Herbicide Compounds

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
2,4,5-TP (Silvex)	See Attached								1	1
2,4-D	See Attached								1	1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	10/18/2007
Project:	Atlas	Date Received:	10/20/2007
Client Sample ID:	0710357-01	SDG No.:	Y4978
Lab Sample ID:	Y4978-01	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009698.D	1	10/23/2007	10/24/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	1.000	U	2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	1.000	U	2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	536.68	107 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 200
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 10/24/07
TCLP Date: 10/22/07

1311/8270C Semi Volatile TCLP Compounds

Analyte	Results	Units	MRL	TCLP Limit	DF	Analyzed
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	10/26/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	10/26/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	10/26/07
2-Methylphenol	ND	mg/L	0.05	200	1	10/26/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	10/26/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	10/26/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	10/26/07
Hexachloroethane	ND	mg/L	0.02	3	1	10/26/07
Nitrobenzene	ND	mg/L	0.05	2	1	10/26/07
Pentachlorophenol	ND	mg/L	0.25	100	1	10/26/07
Pyridine	ND	mg/L	0.50	5	1	10/26/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*81 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*89 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*72 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*88 %*		*30-130*
Surrogate: 2-Fluorophenol	*63 %*		*15-110*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: Phenol-d6	*72 %*		*15-110*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 21.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	82.2	26.3		1	10/26/07
1,1,1-Trichloroethane	ND	ug/Kg dry	41.1	9.9		1	10/26/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	41.1	11.5		1	10/26/07
1,1,2-Trichloroethane	ND	ug/Kg dry	41.1	17.3		1	10/26/07
1,1-Dichloroethane	ND	ug/Kg dry	41.1	11.5		1	10/26/07
1,1-Dichloroethene	ND	ug/Kg dry	41.1	9.0		1	10/26/07
1,1-Dichloropropene	ND	ug/Kg dry	41.1	7.4		1	10/26/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	41.1	9.0		1	10/26/07
1,2,3-Trichloropropane	ND	ug/Kg dry	41.1	20.5		1	10/26/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	41.1	8.2		1	10/26/07
1,2,4-Trimethylbenzene	ND	ug/Kg dry	41.1	9.0		1	10/26/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	205	82.2		1	10/26/07
1,2-Dibromoethane	ND	ug/Kg dry	41.1	8.2		1	10/26/07
1,2-Dichlorobenzene	ND	ug/Kg dry	41.1	8.2		1	10/26/07
1,2-Dichloroethane	ND	ug/Kg dry	41.1	9.9		1	10/26/07
1,2-Dichloropropane	ND	ug/Kg dry	41.1	11.5		1	10/26/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	41.1	10.7		1	10/26/07
1,3-Dichlorobenzene	ND	ug/Kg dry	41.1	9.0		1	10/26/07
1,3-Dichloropropane	ND	ug/Kg dry	41.1	7.4		1	10/26/07
1,4-Dichlorobenzene	ND	ug/Kg dry	41.1	10.7		1	10/26/07
1-Chlorohexane	ND	ug/Kg dry	41.1	9.9		1	10/26/07
2,2-Dichloropropane	ND	ug/Kg dry	82.2	18.9		1	10/26/07
2-Butanone	ND	ug/Kg dry	1030	168		1	10/26/07
2-Chlorotoluene	ND	ug/Kg dry	41.1	11.5		1	10/26/07
2-Hexanone	ND	ug/Kg dry	411	41.1		1	10/26/07
4-Chlorotoluene	ND	ug/Kg dry	41.1	9.9		1	10/26/07
4-Isopropyltoluene	ND	ug/Kg dry	41.1	9.9		1	10/26/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	411	51.8		1	10/26/07
Acetone	ND	ug/Kg dry	1030	349		1	10/26/07
Benzene	ND	ug/Kg dry	41.1	11.5		1	10/26/07
Bromobenzene	ND	ug/Kg dry	41.1	8.2		1	10/26/07
Bromochloromethane	ND	ug/Kg dry	41.1	12.3		1	10/26/07
Bromodichloromethane	ND	ug/Kg dry	41.1	10.7		1	10/26/07
Bromoform	ND	ug/Kg dry	41.1	9.0		1	10/26/07
Bromomethane	ND	ug/Kg dry	82.2	8.2		1	10/26/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 21.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	41.1	9.9	1	10/26/07
Carbon Tetrachloride	ND	ug/Kg dry	41.1	10.7	1	10/26/07
Chlorobenzene	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Chloroethane	ND	ug/Kg dry	82.2	24.7	1	10/26/07
Chloroform	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Chloromethane	ND	ug/Kg dry	82.2	12.3	1	10/26/07
cis-1,2-Dichloroethene	ND	ug/Kg dry	41.1	11.5	1	10/26/07
cis-1,3-Dichloropropene	ND	ug/Kg dry	41.1	8.2	1	10/26/07
Dibromochloromethane	ND	ug/Kg dry	41.1	6.6	1	10/26/07
Dibromomethane	ND	ug/Kg dry	41.1	10.7	1	10/26/07
Dichlorodifluoromethane	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Ethylbenzene	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Hexachlorobutadiene	ND	ug/Kg dry	41.1	18.1	1	10/26/07
Isopropylbenzene	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Methyl tert-Butyl Ether	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Methylene Chloride	ND	ug/Kg dry	205	15.6	1	10/26/07
Naphthalene	**82.2**	ug/Kg dry	41.1	6.6	1	10/26/07
n-Butylbenzene	ND	ug/Kg dry	41.1	9.0	1	10/26/07
n-Propylbenzene	ND	ug/Kg dry	41.1	8.2	1	10/26/07
sec-Butylbenzene	ND	ug/Kg dry	41.1	9.9	1	10/26/07
Styrene	ND	ug/Kg dry	41.1	9.9	1	10/26/07
tert-Butylbenzene	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Tetrachloroethene	ND	ug/Kg dry	41.1	9.9	1	10/26/07
Toluene	ND	ug/Kg dry	41.1	10.7	1	10/26/07
trans-1,2-Dichloroethene	ND	ug/Kg dry	41.1	13.2	1	10/26/07
trans-1,3-Dichloropropene	ND	ug/Kg dry	41.1	9.9	1	10/26/07
Trichloroethene	ND	ug/Kg dry	41.1	9.0	1	10/26/07
Trichlorofluoromethane	ND	ug/Kg dry	41.1	10.7	1	10/26/07
Vinyl Chloride	ND	ug/Kg dry	41.1	9.9	1	10/26/07
Xylene O	ND	ug/Kg dry	41.1	7.4	1	10/26/07
Xylene P,M	ND	ug/Kg dry	82.2	19.7	1	10/26/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-120*
Surrogate: 4-Bromofluorobenzene	*98 %*		*75-120*
Surrogate: Dibromofluoromethane	*81 %*	*SC*	*85-115*
Surrogate: Toluene-d8	*101 %*		*85-120*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/22/07

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1221	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1232	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1242	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1248	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1254	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1260	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1262	ND	ug/Kg dry	53.8	16.1		1	10/23/07
Aroclor 1268	ND	ug/Kg dry	53.8	16.1		1	10/23/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*98 %*		*60-125*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*60-125*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
Corrosivity (pH)		**11.2**	S.U.	N/A	9045		1	EEM	10/19/07 14:35
Flashpoint	>	**200**	°F	N/A	1010		1	NMT	10/22/07
Reactive Cyanide		ND	mg/kg	2.0	7.3.3.2		1	NMT	10/22/07
Reactive Sulfide		ND	mg/kg	2.0	7.3.4.1		1	NMT	10/22/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/23/07

Maine 4.1.25 Diesel Range Organics

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics	**105**	mg/kg dry	20.5	2.78		1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*70 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-1A
Date Sampled: 10/18/07 11:00
Percent Solids: 93
Initial Volume: 22.9
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-01
Sample Matrix: Soil
Analyst: MD
Prepared: 10/24/07

Maine 4.2.17 Gasoline Range Organics / Methanol

Analyte		Results	Units	MRL	MDL	Limit	DF	Analyzed
Gasoline Range Organics	B	**1.2**	mg/kg dry	1.0	0.2		1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*124 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*104 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 100
Final Volume: 5
Extraction Method: 3510C

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/24/07
TCLP Date: 10/22/07

1311/8081A Pesticide TCLP Compounds

Analyte	Results	Units	MRL	TCLP Limit	DF	Analyzed
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	10/24/07
Endrin	ND	mg/L	0.0005	0.02	1	10/24/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	10/24/07
Heptachlor	ND	mg/L	0.0005	0.008	1	10/24/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	10/24/07
Methoxychlor	ND	mg/L	0.0005	10	1	10/24/07
Toxaphene	ND	mg/L	0.0130	0.5	1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil

TCLP Date: 10/22/07

1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/L	0.25	1311/6010B	5	5	SVD	10/24/07	50	50
Barium	ND	mg/L	0.25	1311/6010B	100	5	SVD	10/24/07	50	50
Cadmium	ND	mg/L	0.025	1311/6010B	1	5	SVD	10/24/07	50	50
Chromium	ND	mg/L	0.10	1311/6010B	5	5	SVD	10/24/07	50	50
Lead	ND	mg/L	0.10	1311/6010B	5	5	SVD	10/24/07	50	50
Mercury	ND	mg/L	0.0005	1311/7470A	0.2	1	JP	10/25/07	20	40
Selenium	ND	mg/L	0.50	1311/6010B	1	5	SVD	10/24/07	50	50
Silver	ND	mg/L	0.050	1311/6010B	5	5	SVD	10/24/07	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil

1311/8151A TCLP Herbicide Compounds

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
2,4,5-TP (Silvex)	See Attached								1	1
2,4-D	See Attached								1	1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	10/18/2007
Project:	Atlas	Date Received:	10/20/2007
Client Sample ID:	0710357-02	SDG No.:	Y4978
Lab Sample ID:	Y4978-02	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009699.D	1	10/23/2007	10/24/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	1.000	U	2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	1.000	U	2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	665.11	133 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 200
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 10/24/07
TCLP Date: 10/22/07

1311/8270C Semi Volatile TCLP Compounds

Analyte	Results	Units	MRL	TCLP Limit	DF	Analyzed
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	10/25/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	10/25/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	10/25/07
2-Methylphenol	ND	mg/L	0.05	200	1	10/25/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	10/25/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	10/25/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	10/25/07
Hexachloroethane	ND	mg/L	0.02	3	1	10/25/07
Nitrobenzene	ND	mg/L	0.05	2	1	10/25/07
Pentachlorophenol	ND	mg/L	0.25	100	1	10/25/07
Pyridine	ND	mg/L	0.50	5	1	10/25/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*80 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*89 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*76 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*89 %*		*30-130*
Surrogate: 2-Fluorophenol	*64 %*		*15-110*
Surrogate: Nitrobenzene-d5	*93 %*		*30-130*
Surrogate: Phenol-d6	*72 %*		*15-110*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 21.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	87.6	28.0		1	10/26/07
1,1,1-Trichloroethane	ND	ug/Kg dry	43.8	10.5		1	10/26/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	43.8	12.3		1	10/26/07
1,1,2-Trichloroethane	ND	ug/Kg dry	43.8	18.4		1	10/26/07
1,1-Dichloroethane	ND	ug/Kg dry	43.8	12.3		1	10/26/07
1,1-Dichloroethene	ND	ug/Kg dry	43.8	9.6		1	10/26/07
1,1-Dichloropropene	ND	ug/Kg dry	43.8	7.9		1	10/26/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	43.8	9.6		1	10/26/07
1,2,3-Trichloropropane	ND	ug/Kg dry	43.8	21.9		1	10/26/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	43.8	8.8		1	10/26/07
1,2,4-Trimethylbenzene	ND	ug/Kg dry	43.8	9.6		1	10/26/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	219	87.6		1	10/26/07
1,2-Dibromoethane	ND	ug/Kg dry	43.8	8.8		1	10/26/07
1,2-Dichlorobenzene	ND	ug/Kg dry	43.8	8.8		1	10/26/07
1,2-Dichloroethane	ND	ug/Kg dry	43.8	10.5		1	10/26/07
1,2-Dichloropropane	ND	ug/Kg dry	43.8	12.3		1	10/26/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	43.8	11.4		1	10/26/07
1,3-Dichlorobenzene	ND	ug/Kg dry	43.8	9.6		1	10/26/07
1,3-Dichloropropane	ND	ug/Kg dry	43.8	7.9		1	10/26/07
1,4-Dichlorobenzene	ND	ug/Kg dry	43.8	11.4		1	10/26/07
1-Chlorohexane	ND	ug/Kg dry	43.8	10.5		1	10/26/07
2,2-Dichloropropane	ND	ug/Kg dry	87.6	20.2		1	10/26/07
2-Butanone	ND	ug/Kg dry	1100	179		1	10/26/07
2-Chlorotoluene	ND	ug/Kg dry	43.8	12.3		1	10/26/07
2-Hexanone	ND	ug/Kg dry	438	43.8		1	10/26/07
4-Chlorotoluene	ND	ug/Kg dry	43.8	10.5		1	10/26/07
4-Isopropyltoluene	ND	ug/Kg dry	43.8	10.5		1	10/26/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	438	55.2		1	10/26/07
Acetone	ND	ug/Kg dry	1100	372		1	10/26/07
Benzene	ND	ug/Kg dry	43.8	12.3		1	10/26/07
Bromobenzene	ND	ug/Kg dry	43.8	8.8		1	10/26/07
Bromochloromethane	ND	ug/Kg dry	43.8	13.1		1	10/26/07
Bromodichloromethane	ND	ug/Kg dry	43.8	11.4		1	10/26/07
Bromoform	ND	ug/Kg dry	43.8	9.6		1	10/26/07
Bromomethane	ND	ug/Kg dry	87.6	8.8		1	10/26/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 21.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	43.8	10.5	1	10/26/07
Carbon Tetrachloride	ND	ug/Kg dry	43.8	11.4	1	10/26/07
Chlorobenzene	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Chloroethane	ND	ug/Kg dry	87.6	26.3	1	10/26/07
Chloroform	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Chloromethane	ND	ug/Kg dry	87.6	13.1	1	10/26/07
cis-1,2-Dichloroethene	ND	ug/Kg dry	43.8	12.3	1	10/26/07
cis-1,3-Dichloropropene	ND	ug/Kg dry	43.8	8.8	1	10/26/07
Dibromochloromethane	ND	ug/Kg dry	43.8	7.0	1	10/26/07
Dibromomethane	ND	ug/Kg dry	43.8	11.4	1	10/26/07
Dichlorodifluoromethane	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Ethylbenzene	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Hexachlorobutadiene	ND	ug/Kg dry	43.8	19.3	1	10/26/07
Isopropylbenzene	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Methyl tert-Butyl Ether	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Methylene Chloride	ND	ug/Kg dry	219	16.7	1	10/26/07
Naphthalene	**68.4**	ug/Kg dry	43.8	7.0	1	10/26/07
n-Butylbenzene	ND	ug/Kg dry	43.8	9.6	1	10/26/07
n-Propylbenzene	ND	ug/Kg dry	43.8	8.8	1	10/26/07
sec-Butylbenzene	ND	ug/Kg dry	43.8	10.5	1	10/26/07
Styrene	ND	ug/Kg dry	43.8	10.5	1	10/26/07
tert-Butylbenzene	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Tetrachloroethene	ND	ug/Kg dry	43.8	10.5	1	10/26/07
Toluene	ND	ug/Kg dry	43.8	11.4	1	10/26/07
trans-1,2-Dichloroethene	ND	ug/Kg dry	43.8	14.0	1	10/26/07
trans-1,3-Dichloropropene	ND	ug/Kg dry	43.8	10.5	1	10/26/07
Trichloroethene	ND	ug/Kg dry	43.8	9.6	1	10/26/07
Trichlorofluoromethane	ND	ug/Kg dry	43.8	11.4	1	10/26/07
Vinyl Chloride	ND	ug/Kg dry	43.8	10.5	1	10/26/07
Xylene O	ND	ug/Kg dry	43.8	7.9	1	10/26/07
Xylene P,M	ND	ug/Kg dry	87.6	21.0	1	10/26/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-120*
Surrogate: 4-Bromofluorobenzene	*102 %*		*75-120*
Surrogate: Dibromofluoromethane	*84 %*	*SC*	*85-115*
Surrogate: Toluene-d8	*104 %*		*85-120*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/22/07

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1221	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1232	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1242	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1248	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1254	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1260	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1262	ND	ug/Kg dry	54.7	16.4		1	10/23/07
Aroclor 1268	ND	ug/Kg dry	54.7	16.4		1	10/23/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*94 %*		*60-125*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*60-125*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
Corrosivity (pH)		**11.1**	S.U.	N/A	9045		1	EEM	10/19/07 14:35
Flashpoint	>	**200**	°F	N/A	1010		1	NMT	10/22/07
Reactive Cyanide		ND	mg/kg	2.0	7.3.3.2		1	NMT	10/22/07
Reactive Sulfide		ND	mg/kg	2.0	7.3.4.1		1	NMT	10/22/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/23/07

Maine 4.1.25 Diesel Range Organics

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics	**34.7**	mg/kg dry	20.5	2.79		1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*65 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-2A
Date Sampled: 10/18/07 11:30
Percent Solids: 91
Initial Volume: 21.2
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-02
Sample Matrix: Soil
Analyst: MD
Prepared: 10/24/07

Maine 4.2.17 Gasoline Range Organics / Methanol

Analyte		Results	Units	MRL	MDL	Limit	DF	Analyzed
Gasoline Range Organics	B, J	**0.9**	mg/kg dry	1.1	0.2		1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*120 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*103 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 100
Final Volume: 5
Extraction Method: 3510C

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/24/07
TCLP Date: 10/22/07

1311/8081A Pesticide TCLP Compounds

Analyte	Results	Units	MRL	TCLP Limit	DF	Analyzed
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	10/24/07
Endrin	ND	mg/L	0.0005	0.02	1	10/24/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	10/24/07
Heptachlor	ND	mg/L	0.0005	0.008	1	10/24/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	10/24/07
Methoxychlor	ND	mg/L	0.0005	10	1	10/24/07
Toxaphene	ND	mg/L	0.0130	0.5	1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*100 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*74 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil

TCLP Date: 10/22/07

1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
Arsenic	ND	mg/L	0.25	1311/6010B	5	5	SVD	10/24/07	50	50
Barium	ND	mg/L	0.25	1311/6010B	100	5	SVD	10/24/07	50	50
Cadmium	ND	mg/L	0.025	1311/6010B	1	5	SVD	10/24/07	50	50
Chromium	ND	mg/L	0.10	1311/6010B	5	5	SVD	10/24/07	50	50
Lead	ND	mg/L	0.10	1311/6010B	5	5	SVD	10/24/07	50	50
Mercury	ND	mg/L	0.0005	1311/7470A	0.2	1	JP	10/25/07	20	40
Selenium	ND	mg/L	0.50	1311/6010B	1	5	SVD	10/24/07	50	50
Silver	ND	mg/L	0.050	1311/6010B	5	5	SVD	10/24/07	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil

1311/8151A TCLP Herbicide Compounds

Analyte	Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
2,4,5-TP (Silvex)	See Attached								1	1
2,4-D	See Attached								1	1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	10/18/2007
Project:	Atlas	Date Received:	10/20/2007
Client Sample ID:	0710357-03	SDG No.:	Y4978
Lab Sample ID:	Y4978-03	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009700.D	1	10/23/2007	10/24/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	1.000	U	2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	1.000	U	2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	605.46	121 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 200
Final Volume: 1
Extraction Method: 3520C

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 10/24/07
TCLP Date: 10/22/07

1311/8270C Semi Volatile TCLP Compounds

Analyte	Results	Units	MRL	TCLP Limit	DF	Analyzed
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	10/25/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	10/25/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	10/25/07
2-Methylphenol	ND	mg/L	0.05	200	1	10/25/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	10/25/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	10/25/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	10/25/07
Hexachloroethane	ND	mg/L	0.02	3	1	10/25/07
Nitrobenzene	ND	mg/L	0.05	2	1	10/25/07
Pentachlorophenol	ND	mg/L	0.25	100	1	10/25/07
Pyridine	ND	mg/L	0.50	5	1	10/25/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2,4,6-Tribromophenol	*73 %*		*15-110*
Surrogate: 2-Chlorophenol-d4	*58 %*		*15-110*
Surrogate: 2-Fluorobiphenyl	*72 %*		*30-130*
Surrogate: 2-Fluorophenol	*45 %*		*15-110*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: Phenol-d6	*57 %*		*15-110*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 20.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	89.9	28.8		1	10/26/07
1,1,1-Trichloroethane	ND	ug/Kg dry	45.0	10.8		1	10/26/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	45.0	12.6		1	10/26/07
1,1,2-Trichloroethane	ND	ug/Kg dry	45.0	18.9		1	10/26/07
1,1-Dichloroethane	ND	ug/Kg dry	45.0	12.6		1	10/26/07
1,1-Dichloroethene	ND	ug/Kg dry	45.0	9.9		1	10/26/07
1,1-Dichloropropene	ND	ug/Kg dry	45.0	8.1		1	10/26/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	45.0	9.9		1	10/26/07
1,2,3-Trichloropropane	ND	ug/Kg dry	45.0	22.5		1	10/26/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	45.0	9.0		1	10/26/07
1,2,4-Trimethylbenzene	ND	ug/Kg dry	45.0	9.9		1	10/26/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	225	89.9		1	10/26/07
1,2-Dibromoethane	ND	ug/Kg dry	45.0	9.0		1	10/26/07
1,2-Dichlorobenzene	ND	ug/Kg dry	45.0	9.0		1	10/26/07
1,2-Dichloroethane	ND	ug/Kg dry	45.0	10.8		1	10/26/07
1,2-Dichloropropane	ND	ug/Kg dry	45.0	12.6		1	10/26/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	45.0	11.7		1	10/26/07
1,3-Dichlorobenzene	ND	ug/Kg dry	45.0	9.9		1	10/26/07
1,3-Dichloropropane	ND	ug/Kg dry	45.0	8.1		1	10/26/07
1,4-Dichlorobenzene	ND	ug/Kg dry	45.0	11.7		1	10/26/07
1-Chlorohexane	ND	ug/Kg dry	45.0	10.8		1	10/26/07
2,2-Dichloropropane	ND	ug/Kg dry	89.9	20.7		1	10/26/07
2-Butanone	ND	ug/Kg dry	1120	183		1	10/26/07
2-Chlorotoluene	ND	ug/Kg dry	45.0	12.6		1	10/26/07
2-Hexanone	ND	ug/Kg dry	450	45.0		1	10/26/07
4-Chlorotoluene	ND	ug/Kg dry	45.0	10.8		1	10/26/07
4-Isopropyltoluene	ND	ug/Kg dry	45.0	10.8		1	10/26/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	450	56.6		1	10/26/07
Acetone	ND	ug/Kg dry	1120	382		1	10/26/07
Benzene	ND	ug/Kg dry	45.0	12.6		1	10/26/07
Bromobenzene	ND	ug/Kg dry	45.0	9.0		1	10/26/07
Bromochloromethane	ND	ug/Kg dry	45.0	13.5		1	10/26/07
Bromodichloromethane	ND	ug/Kg dry	45.0	11.7		1	10/26/07
Bromoform	ND	ug/Kg dry	45.0	9.9		1	10/26/07
Bromomethane	ND	ug/Kg dry	89.9	9.0		1	10/26/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 20.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide		ND	ug/Kg dry	45.0	10.8	1	10/26/07
Carbon Tetrachloride		ND	ug/Kg dry	45.0	11.7	1	10/26/07
Chlorobenzene		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Chloroethane		ND	ug/Kg dry	89.9	27.0	1	10/26/07
Chloroform		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Chloromethane		ND	ug/Kg dry	89.9	13.5	1	10/26/07
cis-1,2-Dichloroethene		ND	ug/Kg dry	45.0	12.6	1	10/26/07
cis-1,3-Dichloropropene		ND	ug/Kg dry	45.0	9.0	1	10/26/07
Dibromochloromethane		ND	ug/Kg dry	45.0	7.2	1	10/26/07
Dibromomethane		ND	ug/Kg dry	45.0	11.7	1	10/26/07
Dichlorodifluoromethane		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Ethylbenzene		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Hexachlorobutadiene		ND	ug/Kg dry	45.0	19.8	1	10/26/07
Isopropylbenzene		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Methyl tert-Butyl Ether		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Methylene Chloride		ND	ug/Kg dry	225	17.1	1	10/26/07
Naphthalene	J	**35.1**	ug/Kg dry	45.0	7.2	1	10/26/07
n-Butylbenzene		ND	ug/Kg dry	45.0	9.9	1	10/26/07
n-Propylbenzene		ND	ug/Kg dry	45.0	9.0	1	10/26/07
sec-Butylbenzene		ND	ug/Kg dry	45.0	10.8	1	10/26/07
Styrene		ND	ug/Kg dry	45.0	10.8	1	10/26/07
tert-Butylbenzene		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Tetrachloroethene		ND	ug/Kg dry	45.0	10.8	1	10/26/07
Toluene		ND	ug/Kg dry	45.0	11.7	1	10/26/07
trans-1,2-Dichloroethene		ND	ug/Kg dry	45.0	14.4	1	10/26/07
trans-1,3-Dichloropropene		ND	ug/Kg dry	45.0	10.8	1	10/26/07
Trichloroethene		ND	ug/Kg dry	45.0	9.9	1	10/26/07
Trichlorofluoromethane		ND	ug/Kg dry	45.0	11.7	1	10/26/07
Vinyl Chloride		ND	ug/Kg dry	45.0	10.8	1	10/26/07
Xylene O		ND	ug/Kg dry	45.0	8.1	1	10/26/07
Xylene P,M		ND	ug/Kg dry	89.9	21.6	1	10/26/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-120*
Surrogate: 4-Bromofluorobenzene	*98 %*		*75-120*
Surrogate: Dibromofluoromethane	*94 %*		*85-115*
Surrogate: Toluene-d8	*103 %*		*85-120*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 20.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/22/07

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1221	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1232	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1242	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1248	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1254	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1260	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1262	ND	ug/Kg dry	53.9	16.2		1	10/23/07
Aroclor 1268	ND	ug/Kg dry	53.9	16.2		1	10/23/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*91 %*		*60-125*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*60-125*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil

Classical Chemistry

Analyte		Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
Corrosivity (pH)		**10.2**	S.U.	N/A	9045		1	EEM	10/19/07 14:35
Flashpoint	>	**200**	°F	N/A	1010		1	NMT	10/22/07
Reactive Cyanide		ND	mg/kg	2.0	7.3.3.2		1	NMT	10/22/07
Reactive Sulfide		ND	mg/kg	2.0	7.3.4.1		1	NMT	10/22/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 20.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 10/23/07

Maine 4.1.25 Diesel Range Organics

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics	**23.0**	mg/kg dry	20.1	2.73		1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*62 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: S9-P6-3A
Date Sampled: 10/18/07 12:00
Percent Solids: 91
Initial Volume: 23.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-03
Sample Matrix: Soil
Analyst: MD
Prepared: 10/24/07

Maine 4.2.17 Gasoline Range Organics / Methanol

Analyte		Results	Units	MRL	MDL	Limit	DF	Analyzed
Gasoline Range Organics	B, J	**0.4**	mg/kg dry	1.0	0.2		1	10/24/07

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	*108 %*		*70-130*
Surrogate: Trifluorotoluene - FID	*110 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: Trip blank
Date Sampled: 10/18/07 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-04
Sample Matrix: Solid
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg	100	32.0		1	10/26/07
1,1,1-Trichloroethane	ND	ug/Kg	50.0	12.0		1	10/26/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg	50.0	14.0		1	10/26/07
1,1,2-Trichloroethane	ND	ug/Kg	50.0	21.0		1	10/26/07
1,1-Dichloroethane	ND	ug/Kg	50.0	14.0		1	10/26/07
1,1-Dichloroethene	ND	ug/Kg	50.0	11.0		1	10/26/07
1,1-Dichloropropene	ND	ug/Kg	50.0	9.0		1	10/26/07
1,2,3-Trichlorobenzene	ND	ug/Kg	50.0	11.0		1	10/26/07
1,2,3-Trichloropropane	ND	ug/Kg	50.0	25.0		1	10/26/07
1,2,4-Trichlorobenzene	ND	ug/Kg	50.0	10.0		1	10/26/07
1,2,4-Trimethylbenzene	ND	ug/Kg	50.0	11.0		1	10/26/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	250	100		1	10/26/07
1,2-Dibromoethane	ND	ug/Kg	50.0	10.0		1	10/26/07
1,2-Dichlorobenzene	ND	ug/Kg	50.0	10.0		1	10/26/07
1,2-Dichloroethane	ND	ug/Kg	50.0	12.0		1	10/26/07
1,2-Dichloropropane	ND	ug/Kg	50.0	14.0		1	10/26/07
1,3,5-Trimethylbenzene	ND	ug/Kg	50.0	13.0		1	10/26/07
1,3-Dichlorobenzene	ND	ug/Kg	50.0	11.0		1	10/26/07
1,3-Dichloropropane	ND	ug/Kg	50.0	9.0		1	10/26/07
1,4-Dichlorobenzene	ND	ug/Kg	50.0	13.0		1	10/26/07
1-Chlorohexane	ND	ug/Kg	50.0	12.0		1	10/26/07
2,2-Dichloropropane	ND	ug/Kg	100	23.0		1	10/26/07
2-Butanone	ND	ug/Kg	1250	204		1	10/26/07
2-Chlorotoluene	ND	ug/Kg	50.0	14.0		1	10/26/07
2-Hexanone	ND	ug/Kg	500	50.0		1	10/26/07
4-Chlorotoluene	ND	ug/Kg	50.0	12.0		1	10/26/07
4-Isopropyltoluene	ND	ug/Kg	50.0	12.0		1	10/26/07
4-Methyl-2-Pentanone	ND	ug/Kg	500	63.0		1	10/26/07
Acetone	ND	ug/Kg	1250	425		1	10/26/07
Benzene	ND	ug/Kg	50.0	14.0		1	10/26/07
Bromobenzene	ND	ug/Kg	50.0	10.0		1	10/26/07
Bromochloromethane	ND	ug/Kg	50.0	15.0		1	10/26/07
Bromodichloromethane	ND	ug/Kg	50.0	13.0		1	10/26/07
Bromoform	ND	ug/Kg	50.0	11.0		1	10/26/07
Bromomethane	ND	ug/Kg	100	10.0		1	10/26/07

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS
Client Sample ID: Trip blank
Date Sampled: 10/18/07 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0710357
ESS Laboratory Sample ID: 0710357-04
Sample Matrix: Solid
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg	50.0	12.0	1	10/26/07
Carbon Tetrachloride	ND	ug/Kg	50.0	13.0	1	10/26/07
Chlorobenzene	ND	ug/Kg	50.0	11.0	1	10/26/07
Chloroethane	ND	ug/Kg	100	30.0	1	10/26/07
Chloroform	ND	ug/Kg	50.0	11.0	1	10/26/07
Chloromethane	ND	ug/Kg	100	15.0	1	10/26/07
cis-1,2-Dichloroethene	ND	ug/Kg	50.0	14.0	1	10/26/07
cis-1,3-Dichloropropene	ND	ug/Kg	50.0	10.0	1	10/26/07
Dibromochloromethane	ND	ug/Kg	50.0	8.0	1	10/26/07
Dibromomethane	ND	ug/Kg	50.0	13.0	1	10/26/07
Dichlorodifluoromethane	ND	ug/Kg	50.0	11.0	1	10/26/07
Ethylbenzene	ND	ug/Kg	50.0	11.0	1	10/26/07
Hexachlorobutadiene	ND	ug/Kg	50.0	22.0	1	10/26/07
Isopropylbenzene	ND	ug/Kg	50.0	11.0	1	10/26/07
Methyl tert-Butyl Ether	ND	ug/Kg	50.0	11.0	1	10/26/07
Methylene Chloride	ND	ug/Kg	250	19.0	1	10/26/07
Naphthalene	ND	ug/Kg	50.0	8.0	1	10/26/07
n-Butylbenzene	ND	ug/Kg	50.0	11.0	1	10/26/07
n-Propylbenzene	ND	ug/Kg	50.0	10.0	1	10/26/07
sec-Butylbenzene	ND	ug/Kg	50.0	12.0	1	10/26/07
Styrene	ND	ug/Kg	50.0	12.0	1	10/26/07
tert-Butylbenzene	ND	ug/Kg	50.0	11.0	1	10/26/07
Tetrachloroethene	ND	ug/Kg	50.0	12.0	1	10/26/07
Toluene	ND	ug/Kg	50.0	13.0	1	10/26/07
trans-1,2-Dichloroethene	ND	ug/Kg	50.0	16.0	1	10/26/07
trans-1,3-Dichloropropene	ND	ug/Kg	50.0	12.0	1	10/26/07
Trichloroethene	ND	ug/Kg	50.0	11.0	1	10/26/07
Trichlorofluoromethane	ND	ug/Kg	50.0	13.0	1	10/26/07
Vinyl Chloride	ND	ug/Kg	50.0	12.0	1	10/26/07
Xylene O	ND	ug/Kg	50.0	9.0	1	10/26/07
Xylene P,M	ND	ug/Kg	100	24.0	1	10/26/07

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*70-120*
Surrogate: 4-Bromofluorobenzene	*106 %*		*75-120*
Surrogate: Dibromofluoromethane	*107 %*		*85-115*
Surrogate: Toluene-d8	*110 %*		*85-120*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/8081A Pesticide TCLP Compounds										
Batch BJ72420 - 3510C										
Blank										
Chlordane (Total)	ND	0.0050	mg/L							
Endrin	ND	0.0005	mg/L							
gamma-BHC (Lindane)	ND	0.0005	mg/L							
Heptachlor	ND	0.0005	mg/L							
Heptachlor Epoxide	ND	0.0005	mg/L							
Methoxychlor	ND	0.0005	mg/L							
Toxaphene	ND	0.0130	mg/L							
Surrogate: Decachlorobiphenyl	*0.00233*		mg/L	*0.002500*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00234*		mg/L	*0.002500*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00202*		mg/L	*0.002500*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00206*		mg/L	*0.002500*		*83*	*30-150*			
LCS										
Endrin	0.0024	0.0005	mg/L	0.002500		96	40-140			
gamma-BHC (Lindane)	0.0024	0.0005	mg/L	0.002500		96	40-140			
Heptachlor	0.0023	0.0005	mg/L	0.002500		92	40-140			
Heptachlor Epoxide	0.0024	0.0005	mg/L	0.002500		94	40-140			
Methoxychlor	0.0023	0.0005	mg/L	0.002500		93	40-140			
Surrogate: Decachlorobiphenyl	*0.00229*		mg/L	*0.002500*		*92*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00227*		mg/L	*0.002500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00213*		mg/L	*0.002500*		*85*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00211*		mg/L	*0.002500*		*85*	*30-150*			
LCS Dup										
Endrin	0.0025	0.0005	mg/L	0.002500		100	40-140	4	20	
gamma-BHC (Lindane)	0.0025	0.0005	mg/L	0.002500		98	40-140	2	20	
Heptachlor	0.0023	0.0005	mg/L	0.002500		93	40-140	2	20	
Heptachlor Epoxide	0.0024	0.0005	mg/L	0.002500		96	40-140	2	20	
Methoxychlor	0.0025	0.0005	mg/L	0.002500		101	40-140	8	20	
Surrogate: Decachlorobiphenyl	*0.00242*		mg/L	*0.002500*		*97*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00268*		mg/L	*0.002500*		*107*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00200*		mg/L	*0.002500*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00211*		mg/L	*0.002500*		*85*	*30-150*			
Matrix Spike Source: 0710357-03										
Endrin	0.0026	0.0005	mg/L	0.002500	ND	104	30-150			
gamma-BHC (Lindane)	0.0025	0.0005	mg/L	0.002500	ND	101	30-150			
Heptachlor	0.0023	0.0005	mg/L	0.002500	ND	94	30-150			
Heptachlor Epoxide	0.0025	0.0005	mg/L	0.002500	ND	99	30-150			
Methoxychlor	0.0027	0.0005	mg/L	0.002500	ND	109	30-150			
Surrogate: Decachlorobiphenyl	*0.00250*		mg/L	*0.002500*		*100*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.00252*		mg/L	*0.002500*		*101*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.00174*		mg/L	*0.002500*		*70*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.00183*		mg/L	*0.002500*		*73*	*30-150*			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/6000/7000 TCLP Metals										
Batch BJ72307 - 3005A										
Blank										
Arsenic	ND	0.05	mg/L							
Barium	ND	0.05	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.02	mg/L							
Lead	ND	0.02	mg/L							
Selenium	ND	0.10	mg/L							
Silver	ND	0.010	mg/L							
Blank										
Arsenic	ND	0.05	mg/L							
Barium	ND	0.05	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.02	mg/L							
Lead	ND	0.02	mg/L							
Selenium	ND	0.10	mg/L							
Silver	ND	0.010	mg/L							
LCS										
Arsenic	0.52	0.05	mg/L	0.5000		104	80-120			
Barium	0.48	0.05	mg/L	0.5000		95	80-120			
Cadmium	0.253	0.005	mg/L	0.2500		101	80-120			
Chromium	0.48	0.02	mg/L	0.5000		95	80-120			
Lead	0.50	0.02	mg/L	0.5000		100	80-120			
Selenium	1.07	0.10	mg/L	1.000		107	80-120			
Silver	0.256	0.010	mg/L	0.2500		102	80-120			
LCS Dup										
Arsenic	0.52	0.05	mg/L	0.5000		104	80-120	0.3	20	
Barium	0.47	0.05	mg/L	0.5000		95	80-120	0.8	20	
Cadmium	0.252	0.005	mg/L	0.2500		101	80-120	0.3	20	
Chromium	0.47	0.02	mg/L	0.5000		95	80-120	0.6	20	
Lead	0.50	0.02	mg/L	0.5000		99	80-120	0.9	20	
Selenium	1.06	0.10	mg/L	1.000		106	80-120	0.5	20	
Silver	0.255	0.010	mg/L	0.2500		102	80-120	0.3	20	
Batch BJ72310 - 245.1/7470A										
Blank										
Mercury	ND	0.0005	mg/L							
Blank										
Mercury	ND	0.0005	mg/L							
LCS										
Mercury	0.0055	0.0005	mg/L	0.006000		92	80-120			
LCS Dup										
Mercury	0.0054	0.0005	mg/L	0.006000		90	80-120	1	20	
1311/8270C Semi Volatile TCLP Compounds										

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/8270C Semi Volatile TCLP Compounds										
Batch BJ72416 - 3520C										
Blank										
2,4,5-Trichlorophenol	ND	0.05	mg/L							
2,4,6-Trichlorophenol	ND	0.05	mg/L							
2,4-Dinitrotoluene	ND	0.05	mg/L							
2-Methylphenol	ND	0.05	mg/L							
3+4-Methylphenol	ND	0.10	mg/L							
Hexachlorobenzene	ND	0.05	mg/L							
Hexachlorobutadiene	ND	0.05	mg/L							
Hexachloroethane	ND	0.02	mg/L							
Nitrobenzene	ND	0.05	mg/L							
Pentachlorophenol	ND	0.25	mg/L							
Pyridine	ND	0.50	mg/L							
Surrogate: 1,2-Dichlorobenzene-d4	*0.400*		mg/L	*0.5000*		*80*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*0.672*		mg/L	*0.7500*		*90*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*0.557*		mg/L	*0.7500*		*74*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*0.423*		mg/L	*0.5000*		*85*	*30-130*			
Surrogate: 2-Fluorophenol	*0.451*		mg/L	*0.7500*		*60*	*15-110*			
Surrogate: Nitrobenzene-d5	*0.446*		mg/L	*0.5000*		*89*	*30-130*			
Surrogate: Phenol-d6	*0.510*		mg/L	*0.7500*		*68*	*15-110*			
Surrogate: p-Terphenyl-d14	*0.464*		mg/L	*0.5000*		*93*	*30-130*			
LCS										
2,4,5-Trichlorophenol	0.46	0.05	mg/L	0.5000		92	30-130			
2,4,6-Trichlorophenol	0.42	0.05	mg/L	0.5000		84	30-130			
2,4-Dinitrotoluene	0.45	0.05	mg/L	0.5000		90	40-140			
2-Methylphenol	0.38	0.05	mg/L	0.5000		76	30-130			
3+4-Methylphenol	0.78	0.10	mg/L	1.000		78	30-130			
Hexachlorobenzene	0.44	0.05	mg/L	0.5000		89	40-140			
Hexachlorobutadiene	0.37	0.05	mg/L	0.5000		75	40-140			
Hexachloroethane	0.30	0.02	mg/L	0.5000		60	40-140			
Nitrobenzene	0.39	0.05	mg/L	0.5000		77	40-140			
Pentachlorophenol	0.49	0.25	mg/L	0.5000		99	30-130			
Pyridine	0.30	0.50	mg/L	0.5000		60	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*0.378*		mg/L	*0.5000*		*76*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*0.727*		mg/L	*0.7500*		*97*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*0.529*		mg/L	*0.7500*		*71*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*0.429*		mg/L	*0.5000*		*86*	*30-130*			
Surrogate: 2-Fluorophenol	*0.467*		mg/L	*0.7500*		*62*	*15-110*			
Surrogate: Nitrobenzene-d5	*0.407*		mg/L	*0.5000*		*81*	*30-130*			
Surrogate: Phenol-d6	*0.575*		mg/L	*0.7500*		*77*	*15-110*			
Surrogate: p-Terphenyl-d14	*0.486*		mg/L	*0.5000*		*97*	*30-130*			
LCS Dup										
2,4,5-Trichlorophenol	0.43	0.05	mg/L	0.5000		86	30-130	6	20	
2,4,6-Trichlorophenol	0.40	0.05	mg/L	0.5000		80	30-130	6	20	
2,4-Dinitrotoluene	0.42	0.05	mg/L	0.5000		84	40-140	7	20	
2-Methylphenol	0.34	0.05	mg/L	0.5000		68	30-130	12	20	
3+4-Methylphenol	0.67	0.10	mg/L	1.000		67	30-130	15	20	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/8270C Semi Volatile TCLP Compounds										
Batch BJ72416 - 3520C										
Hexachlorobenzene	0.44	0.05	mg/L	0.5000		87	40-140	2	20	
Hexachlorobutadiene	0.34	0.05	mg/L	0.5000		68	40-140	10	20	
Hexachloroethane	0.30	0.02	mg/L	0.5000		59	40-140	1	20	
Nitrobenzene	0.32	0.05	mg/L	0.5000		64	40-140	18	20	
Pentachlorophenol	0.49	0.25	mg/L	0.5000		97	30-130	2	20	
Pyridine	0.28	0.50	mg/L	0.5000		55	40-140	8	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.354*		mg/L	*0.5000*		*71*	*30-130*			
Surrogate: 2,4,6-Tribromophenol	*0.749*		mg/L	*0.7500*		*100*	*15-110*			
Surrogate: 2-Chlorophenol-d4	*0.510*		mg/L	*0.7500*		*68*	*15-110*			
Surrogate: 2-Fluorobiphenyl	*0.409*		mg/L	*0.5000*		*82*	*30-130*			
Surrogate: 2-Fluorophenol	*0.457*		mg/L	*0.7500*		*61*	*15-110*			
Surrogate: Nitrobenzene-d5	*0.373*		mg/L	*0.5000*		*75*	*30-130*			
Surrogate: Phenol-d6	*0.519*		mg/L	*0.7500*		*69*	*15-110*			
Surrogate: p-Terphenyl-d14	*0.493*		mg/L	*0.5000*		*99*	*30-130*			
5035/8260B Volatile Organic Compounds / Methanol										
Batch BJ72609 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BJ72609 - 5035										
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Ethylbenzene	ND	50.0	ug/Kg wet							
Hexachlorobutadiene	ND	50.0	ug/Kg wet							
Isopropylbenzene	ND	50.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	50.0	ug/Kg wet							
Methylene Chloride	ND	250	ug/Kg wet							
Naphthalene	ND	50.0	ug/Kg wet							
n-Butylbenzene	ND	50.0	ug/Kg wet							
n-Propylbenzene	ND	50.0	ug/Kg wet							
sec-Butylbenzene	ND	50.0	ug/Kg wet							
Styrene	ND	50.0	ug/Kg wet							
tert-Butylbenzene	ND	50.0	ug/Kg wet							
Tetrachloroethene	ND	50.0	ug/Kg wet							
Toluene	ND	50.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Trichloroethene	ND	50.0	ug/Kg wet							
Trichlorofluoromethane	ND	50.0	ug/Kg wet							
Vinyl Chloride	ND	50.0	ug/Kg wet							
Xylene O	ND	50.0	ug/Kg wet							
Xylene P,M	ND	100	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2630*		ug/Kg wet	*2500*		*105*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2660*		ug/Kg wet	*2500*		*106*	*75-120*			
Surrogate: Dibromofluoromethane	*2620*		ug/Kg wet	*2500*		*105*	*85-115*			
Surrogate: Toluene-d8	*2820*		ug/Kg wet	*2500*		*113*	*85-120*			
LCS										
1,1,1,2-Tetrachloroethane	25.0		ug/L	25.00		100	75-125			
1,1,1-Trichloroethane	23.3		ug/L	25.00		93	70-135			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BJ72609 - 5035										
1,1,2,2-Tetrachloroethane	24.5		ug/L	25.00		98	55-130			
1,1,2-Trichloroethane	25.0		ug/L	25.00		100	60-125			
1,1-Dichloroethane	24.0		ug/L	25.00		96	75-125			
1,1-Dichloroethene	25.4		ug/L	25.00		101	65-135			
1,1-Dichloropropene	24.7		ug/L	25.00		99	70-135			
1,2,3-Trichlorobenzene	22.6		ug/L	25.00		90	60-135			
1,2,3-Trichloropropane	25.7		ug/L	25.00		103	65-130			
1,2,4-Trichlorobenzene	23.2		ug/L	25.00		93	65-130			
1,2,4-Trimethylbenzene	25.0		ug/L	25.00		100	65-135			
1,2-Dibromo-3-Chloropropane	22.9		ug/L	25.00		92	40-135			
1,2-Dibromoethane	24.8		ug/L	25.00		99	70-125			
1,2-Dichlorobenzene	23.5		ug/L	25.00		94	75-120			
1,2-Dichloroethane	23.5		ug/L	25.00		94	70-135			
1,2-Dichloropropane	25.4		ug/L	25.00		102	70-120			
1,3,5-Trimethylbenzene	22.2		ug/L	25.00		89	65-135			
1,3-Dichlorobenzene	24.2		ug/L	25.00		97	70-125			
1,3-Dichloropropane	26.3		ug/L	25.00		105	75-125			
1,4-Dichlorobenzene	24.0		ug/L	25.00		96	70-125			
1-Chlorohexane	25.8		ug/L	25.00		103	70-130			
2,2-Dichloropropane	22.8		ug/L	25.00		91	65-135			
2-Butanone	154		ug/L	125.0		123	30-160			
2-Chlorotoluene	24.8		ug/L	25.00		99	70-130			
2-Hexanone	164		ug/L	125.0		131	45-145			
4-Chlorotoluene	24.8		ug/L	25.00		99	75-125			
4-Isopropyltoluene	24.6		ug/L	25.00		98	75-135			
4-Methyl-2-Pentanone	130		ug/L	125.0		104	45-145			
Acetone	197		ug/L	125.0		157	20-160			
Benzene	24.4		ug/L	25.00		98	75-125			
Bromobenzene	24.8		ug/L	25.00		99	65-120			
Bromochloromethane	22.9		ug/L	25.00		92	70-125			
Bromodichloromethane	27.2		ug/L	25.00		109	70-130			
Bromoform	20.9		ug/L	25.00		84	55-135			
Bromomethane	24.2		ug/L	25.00		97	30-160			
Carbon Disulfide	25.8		ug/L	25.00		103	45-160			
Carbon Tetrachloride	22.3		ug/L	25.00		89	65-135			
Chlorobenzene	24.4		ug/L	25.00		98	75-125			
Chloroethane	21.5		ug/L	25.00		86	40-155			
Chloroform	24.5		ug/L	25.00		98	70-125			
Chloromethane	23.0		ug/L	25.00		92	50-130			
cis-1,2-Dichloroethene	23.8		ug/L	25.00		95	65-125			
cis-1,3-Dichloropropene	24.7		ug/L	25.00		99	70-125			
Dibromochloromethane	22.4		ug/L	25.00		89	65-130			
Dibromomethane	25.8		ug/L	25.00		103	75-130			
Dichlorodifluoromethane	18.0		ug/L	25.00		72	35-135			
Ethylbenzene	25.2		ug/L	25.00		101	75-125			
Hexachlorobutadiene	22.7		ug/L	25.00		91	55-140			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BJ72609 - 5035										
Isopropylbenzene	22.2		ug/L	25.00		89	75-130			
Methyl tert-Butyl Ether	23.7		ug/L	25.00		95	70-130			
Methylene Chloride	24.2		ug/L	25.00		97	55-140			
Naphthalene	23.9		ug/L	25.00		96	40-125			
n-Butylbenzene	25.4		ug/L	25.00		102	65-140			
n-Propylbenzene	24.7		ug/L	25.00		99	65-135			
sec-Butylbenzene	24.0		ug/L	25.00		96	65-130			
Styrene	25.4		ug/L	25.00		102	75-125			
tert-Butylbenzene	24.3		ug/L	25.00		97	65-130			
Tetrachloroethene	32.5		ug/L	25.00		130	65-140			
Toluene	24.0		ug/L	25.00		96	70-125			
trans-1,2-Dichloroethene	24.6		ug/L	25.00		98	65-135			
trans-1,3-Dichloropropene	20.7		ug/L	25.00		83	65-125			
Trichloroethene	26.6		ug/L	25.00		106	75-125			
Trichlorofluoromethane	15.3		ug/L	25.00		61	25-185			
Vinyl Chloride	30.6		ug/L	25.00		122	60-125			
Xylene O	24.7		ug/L	25.00		99	75-125			
Xylene P,M	49.5		ug/L	50.00		99	80-125			
Surrogate: 1,2-Dichloroethane-d4	*2530*		ug/Kg wet	*2500*		*101*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2890*		ug/Kg wet	*2500*		*116*	*75-120*			
Surrogate: Dibromofluoromethane	*2700*		ug/Kg wet	*2500*		*108*	*85-115*			
Surrogate: Toluene-d8	*2910*		ug/Kg wet	*2500*		*117*	*85-120*			
LCS Dup										
1,1,1,2-Tetrachloroethane	25.1		ug/L	25.00		100	75-125	0.4	30	
1,1,1-Trichloroethane	25.0		ug/L	25.00		100	70-135	7	30	
1,1,2,2-Tetrachloroethane	24.5		ug/L	25.00		98	55-130	0.2	30	
1,1,2-Trichloroethane	26.6		ug/L	25.00		106	60-125	6	30	
1,1-Dichloroethane	25.8		ug/L	25.00		103	75-125	7	30	
1,1-Dichloroethene	26.3		ug/L	25.00		105	65-135	4	30	
1,1-Dichloropropene	25.6		ug/L	25.00		103	70-135	4	30	
1,2,3-Trichlorobenzene	27.5		ug/L	25.00		110	60-135	20	30	
1,2,3-Trichloropropane	25.7		ug/L	25.00		103	65-130	0.08	30	
1,2,4-Trichlorobenzene	25.7		ug/L	25.00		103	65-130	10	30	
1,2,4-Trimethylbenzene	25.8		ug/L	25.00		103	65-135	3	30	
1,2-Dibromo-3-Chloropropane	24.4		ug/L	25.00		98	40-135	7	30	
1,2-Dibromoethane	26.0		ug/L	25.00		104	70-125	5	30	
1,2-Dichlorobenzene	24.2		ug/L	25.00		97	75-120	3	30	
1,2-Dichloroethane	25.6		ug/L	25.00		102	70-135	8	30	
1,2-Dichloropropane	26.5		ug/L	25.00		106	70-120	4	30	
1,3,5-Trimethylbenzene	22.6		ug/L	25.00		90	65-135	2	30	
1,3-Dichlorobenzene	24.4		ug/L	25.00		97	70-125	0.8	30	
1,3-Dichloropropane	26.2		ug/L	25.00		105	75-125	0.1	30	
1,4-Dichlorobenzene	24.0		ug/L	25.00		96	70-125	0.2	30	
1-Chlorohexane	26.0		ug/L	25.00		104	70-130	1	30	
2,2-Dichloropropane	23.6		ug/L	25.00		94	65-135	3	30	
2-Butanone	177		ug/L	125.0		141	30-160	14	30	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BJ72609 - 5035										
2-Chlorotoluene	25.2		ug/L	25.00		101	70-130	1	30	
2-Hexanone	168		ug/L	125.0		134	45-145	3	30	
4-Chlorotoluene	24.7		ug/L	25.00		99	75-125	0.6	30	
4-Isopropyltoluene	25.3		ug/L	25.00		101	75-135	3	30	
4-Methyl-2-Pentanone	138		ug/L	125.0		111	45-145	6	30	
Acetone	199		ug/L	125.0		159	20-160	1	30	
Benzene	25.3		ug/L	25.00		101	75-125	3	30	
Bromobenzene	25.2		ug/L	25.00		101	65-120	2	30	
Bromochloromethane	25.2		ug/L	25.00		101	70-125	10	30	
Bromodichloromethane	26.8		ug/L	25.00		107	70-130	1	30	
Bromoform	22.0		ug/L	25.00		88	55-135	5	30	
Bromomethane	27.4		ug/L	25.00		110	30-160	12	30	
Carbon Disulfide	26.7		ug/L	25.00		107	45-160	4	30	
Carbon Tetrachloride	23.8		ug/L	25.00		95	65-135	6	30	
Chlorobenzene	24.6		ug/L	25.00		98	75-125	0.9	30	
Chloroethane	24.5		ug/L	25.00		98	40-155	13	30	
Chloroform	25.6		ug/L	25.00		102	70-125	4	30	
Chloromethane	28.0		ug/L	25.00		112	50-130	20	30	
cis-1,2-Dichloroethene	24.8		ug/L	25.00		99	65-125	4	30	
cis-1,3-Dichloropropene	26.0		ug/L	25.00		104	70-125	5	30	
Dibromochloromethane	22.1		ug/L	25.00		88	65-130	1	30	
Dibromomethane	25.0		ug/L	25.00		100	75-130	3	30	
Dichlorodifluoromethane	24.2		ug/L	25.00		97	35-135	29	30	
Ethylbenzene	25.5		ug/L	25.00		102	75-125	0.9	30	
Hexachlorobutadiene	25.4		ug/L	25.00		102	55-140	12	30	
Isopropylbenzene	22.6		ug/L	25.00		90	75-130	2	30	
Methyl tert-Butyl Ether	25.2		ug/L	25.00		101	70-130	6	30	
Methylene Chloride	23.8		ug/L	25.00		95	55-140	1	30	
Naphthalene	27.8		ug/L	25.00		111	40-125	15	30	
n-Butylbenzene	26.1		ug/L	25.00		104	65-140	3	30	
n-Propylbenzene	25.0		ug/L	25.00		100	65-135	1	30	
sec-Butylbenzene	25.0		ug/L	25.00		100	65-130	4	30	
Styrene	25.8		ug/L	25.00		103	75-125	1	30	
tert-Butylbenzene	24.9		ug/L	25.00		99	65-130	2	30	
Tetrachloroethene	32.0		ug/L	25.00		128	65-140	2	30	
Toluene	26.0		ug/L	25.00		104	70-125	8	30	
trans-1,2-Dichloroethene	25.6		ug/L	25.00		103	65-135	4	30	
trans-1,3-Dichloropropene	22.6		ug/L	25.00		90	65-125	9	30	
Trichloroethene	26.7		ug/L	25.00		107	75-125	0.6	30	
Trichlorofluoromethane	23.4		ug/L	25.00		94	25-185	42	30	D+
Vinyl Chloride	23.6		ug/L	25.00		94	60-125	26	30	
Xylene O	25.2		ug/L	25.00		101	75-125	2	30	
Xylene P,M	50.2		ug/L	50.00		100	80-125	1	30	
Surrogate: 1,2-Dichloroethane-d4	*2840*		ug/Kg wet	*2500*		*113*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*2900*		ug/Kg wet	*2500*		*116*	*75-120*			
Surrogate: Dibromofluoromethane	*2870*		ug/Kg wet	*2500*		*115*	*85-115*			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BJ72609 - 5035										
Surrogate: Toluene-d8	*2980*		ug/Kg wet	*2500*		*119*	*85-120*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BJ72409 - 3541										
Blank										
Aroclor 1016	ND	50.0	ug/Kg wet							
Aroclor 1016 (1)	ND	50.0	ug/Kg wet							
Aroclor 1016 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (2)	ND	50.0	ug/Kg wet							
Aroclor 1016 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (3)	ND	50.0	ug/Kg wet							
Aroclor 1016 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (4)	ND	50.0	ug/Kg wet							
Aroclor 1016 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (5)	ND	50.0	ug/Kg wet							
Aroclor 1016 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221	ND	50.0	ug/Kg wet							
Aroclor 1221 (1)	ND	50.0	ug/Kg wet							
Aroclor 1221 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (2)	ND	50.0	ug/Kg wet							
Aroclor 1221 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (3)	ND	50.0	ug/Kg wet							
Aroclor 1221 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (4)	ND	50.0	ug/Kg wet							
Aroclor 1221 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (5)	ND	50.0	ug/Kg wet							
Aroclor 1221 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232	ND	50.0	ug/Kg wet							
Aroclor 1232 (1)	ND	50.0	ug/Kg wet							
Aroclor 1232 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (2)	ND	50.0	ug/Kg wet							
Aroclor 1232 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (3)	ND	50.0	ug/Kg wet							
Aroclor 1232 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (4)	ND	50.0	ug/Kg wet							
Aroclor 1232 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (5)	ND	50.0	ug/Kg wet							
Aroclor 1232 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242	ND	50.0	ug/Kg wet							
Aroclor 1242 (1)	ND	50.0	ug/Kg wet							
Aroclor 1242 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (2)	ND	50.0	ug/Kg wet							
Aroclor 1242 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (3)	ND	50.0	ug/Kg wet							
Aroclor 1242 (3) [2C]	ND	50.0	ug/Kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BJ72409 - 3541										
Aroclor 1242 (4)	ND	50.0	ug/Kg wet							
Aroclor 1242 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (5)	ND	50.0	ug/Kg wet							
Aroclor 1242 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248	ND	50.0	ug/Kg wet							
Aroclor 1248 (1)	ND	50.0	ug/Kg wet							
Aroclor 1248 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (2)	ND	50.0	ug/Kg wet							
Aroclor 1248 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (3)	ND	50.0	ug/Kg wet							
Aroclor 1248 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (4)	ND	50.0	ug/Kg wet							
Aroclor 1248 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (5)	ND	50.0	ug/Kg wet							
Aroclor 1248 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254	ND	50.0	ug/Kg wet							
Aroclor 1254 (1)	ND	50.0	ug/Kg wet							
Aroclor 1254 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (2)	ND	50.0	ug/Kg wet							
Aroclor 1254 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (3)	ND	50.0	ug/Kg wet							
Aroclor 1254 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (4)	ND	50.0	ug/Kg wet							
Aroclor 1254 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (5)	ND	50.0	ug/Kg wet							
Aroclor 1254 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260	ND	50.0	ug/Kg wet							
Aroclor 1260 (1)	ND	50.0	ug/Kg wet							
Aroclor 1260 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (2)	ND	50.0	ug/Kg wet							
Aroclor 1260 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (3)	ND	50.0	ug/Kg wet							
Aroclor 1260 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (4)	ND	50.0	ug/Kg wet							
Aroclor 1260 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (5)	ND	50.0	ug/Kg wet							
Aroclor 1260 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262	ND	50.0	ug/Kg wet							
Aroclor 1262 (1)	ND	50.0	ug/Kg wet							
Aroclor 1262 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (2)	ND	50.0	ug/Kg wet							
Aroclor 1262 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (3)	ND	50.0	ug/Kg wet							
Aroclor 1262 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (4)	ND	50.0	ug/Kg wet							
Aroclor 1262 (4) [2C]	ND	50.0	ug/Kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BJ72409 - 3541										
Aroclor 1262 (5)	ND	50.0	ug/Kg wet							
Aroclor 1262 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268	ND	50.0	ug/Kg wet							
Aroclor 1268 (1)	ND	50.0	ug/Kg wet							
Aroclor 1268 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (2)	ND	50.0	ug/Kg wet							
Aroclor 1268 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (3)	ND	50.0	ug/Kg wet							
Aroclor 1268 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (4)	ND	50.0	ug/Kg wet							
Aroclor 1268 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (5)	ND	50.0	ug/Kg wet							
Aroclor 1268 (5) [2C]	ND	50.0	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*22.5*		ug/Kg wet	*25.00*		*90*	*60-125*			
Surrogate: Decachlorobiphenyl [2C]	*21.7*		ug/Kg wet	*25.00*		*87*	*60-125*			
Surrogate: Tetrachloro-m-xylene	*23.0*		ug/Kg wet	*25.00*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*22.2*		ug/Kg wet	*25.00*		*89*	*30-150*			
LCS										
Aroclor 1016	475	50.0	ug/Kg wet	500.0		95	40-140			
Aroclor 1260	439	50.0	ug/Kg wet	500.0		88	60-130			
Surrogate: Decachlorobiphenyl	*22.8*		ug/Kg wet	*25.00*		*91*	*60-125*			
Surrogate: Decachlorobiphenyl [2C]	*21.0*		ug/Kg wet	*25.00*		*84*	*60-125*			
LCS Dup										
Aroclor 1016	495	50.0	ug/Kg wet	500.0		99	40-140	4	30	
Aroclor 1260	457	50.0	ug/Kg wet	500.0		91	60-130	4	30	
Surrogate: Decachlorobiphenyl	*24.6*		ug/Kg wet	*25.00*		*98*	*60-125*			
Surrogate: Decachlorobiphenyl [2C]	*21.9*		ug/Kg wet	*25.00*		*88*	*60-125*			
Matrix Spike Source: 0710357-01										
Aroclor 1016	545	52.7	ug/Kg dry	527.1	ND	103	40-140			
Aroclor 1260	478	52.7	ug/Kg dry	527.1	ND	91	60-130			
Surrogate: Decachlorobiphenyl	*25.3*		ug/Kg dry	*26.35*		*96*	*60-125*			
Surrogate: Decachlorobiphenyl [2C]	*22.4*		ug/Kg dry	*26.35*		*85*	*60-125*			
Matrix Spike Dup Source: 0710357-01										
Aroclor 1016	545	53.8	ug/Kg dry	537.6	ND	101	40-140	0.006	30	
Aroclor 1260	474	53.8	ug/Kg dry	537.6	ND	88	60-130	0.9	30	
Surrogate: Decachlorobiphenyl	*26.4*		ug/Kg dry	*26.88*		*98*	*60-125*			
Surrogate: Decachlorobiphenyl [2C]	*23.2*		ug/Kg dry	*26.88*		*86*	*60-125*			
Classical Chemistry										
Batch BJ72007 - General Preparation										
Duplicate Source: 0710357-03										

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch BJ72007 - General Preparation										
Corrosivity (pH)	10.2		S.U.		10.2			0.4	200	
Maine 4.1.25 Diesel Range Organics										
Batch BJ72333 - 3546										
Blank										
Decane (C10)	ND	0.26	mg/kg wet							
Diesel Range Organics	ND	18.8	mg/kg wet							
Docosane (C22)	ND	0.26	mg/kg wet							
Dodecane (C12)	ND	0.26	mg/kg wet							
Eicosane (C20)	ND	0.26	mg/kg wet							
Hexacosane (C26)	ND	0.26	mg/kg wet							
Hexadecane (C16)	ND	0.26	mg/kg wet							
Nonadecane (C19)	ND	0.26	mg/kg wet							
Octacosane (C28)	ND	0.26	mg/kg wet							
Octadecane (C18)	ND	0.26	mg/kg wet							
Tetracosane (C24)	ND	0.26	mg/kg wet							
Tetradecane (C14)	ND	0.26	mg/kg wet							
Surrogate: O-Terphenyl	*3.54*		mg/kg wet	*5.000*		*71*	*50-150*			
LCS										
Decane (C10)	1.61	0.26	mg/kg wet	2.500		65	60-140			
Docosane (C22)	1.90	0.26	mg/kg wet	2.500		76	60-140			
Dodecane (C12)	1.78	0.26	mg/kg wet	2.500		71	60-140			
Eicosane (C20)	1.89	0.26	mg/kg wet	2.500		76	60-140			
Hexacosane (C26)	1.91	0.26	mg/kg wet	2.500		76	60-140			
Hexadecane (C16)	1.86	0.26	mg/kg wet	2.500		74	60-140			
Nonadecane (C19)	2.04	0.26	mg/kg wet	2.500		82	60-140			
Octacosane (C28)	1.90	0.26	mg/kg wet	2.500		76	60-140			
Octadecane (C18)	1.90	0.26	mg/kg wet	2.500		76	60-140			
Tetracosane (C24)	1.94	0.26	mg/kg wet	2.500		78	60-140			
Tetradecane (C14)	1.84	0.26	mg/kg wet	2.500		73	60-140			
Surrogate: O-Terphenyl	*3.58*		mg/kg wet	*5.000*		*72*	*50-150*			
LCS Dup										
Decane (C10)	1.47	0.26	mg/kg wet	2.500		59	60-140	9	20	B-
Docosane (C22)	1.82	0.26	mg/kg wet	2.500		73	60-140	5	20	
Dodecane (C12)	1.62	0.26	mg/kg wet	2.500		65	60-140	9	20	
Eicosane (C20)	1.79	0.26	mg/kg wet	2.500		72	60-140	5	20	
Hexacosane (C26)	1.84	0.26	mg/kg wet	2.500		73	60-140	4	20	
Hexadecane (C16)	1.77	0.26	mg/kg wet	2.500		71	60-140	5	20	
Nonadecane (C19)	1.95	0.26	mg/kg wet	2.500		78	60-140	4	20	
Octacosane (C28)	1.82	0.26	mg/kg wet	2.500		73	60-140	4	20	
Octadecane (C18)	1.79	0.26	mg/kg wet	2.500		72	60-140	6	20	
Tetracosane (C24)	1.85	0.26	mg/kg wet	2.500		74	60-140	5	20	
Tetradecane (C14)	1.73	0.26	mg/kg wet	2.500		69	60-140	6	20	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Maine 4.1.25 Diesel Range Organics										
Batch BJ72333 - 3546										
Surrogate: O-Terphenyl	*3.42*		mg/kg wet	*5.000*		*68*	*50-150*			
Maine 4.2.17 Gasoline Range Organics / Methanol										
Batch BJ72429 - 5035										
Blank										
Gasoline Range Organics	0.3	1.2	mg/kg wet							J
Surrogate: 2,5-Dibromotoluene - FID	*56.2*		ug/L	*50.00*		*112*	*70-130*			
Surrogate: Trifluorotoluene - FID	*1.19*		mg/kg wet	*1.333*		*89*	*70-130*			
LCS										
Gasoline Range Organics	504		ug/L	500.0		101	60-140			
Surrogate: 2,5-Dibromotoluene - FID	*56.9*		ug/L	*50.00*		*114*	*70-130*			
Surrogate: Trifluorotoluene - FID	*1.42*		mg/kg wet	*1.333*		*107*	*70-130*			
LCS Dup										
Gasoline Range Organics	500		ug/L	500.0		100	60-140	0.8	20	
Surrogate: 2,5-Dibromotoluene - FID	*56.9*		ug/L	*50.00*		*114*	*70-130*			
Surrogate: Trifluorotoluene - FID	*1.31*		mg/kg wet	*1.333*		*98*	*70-130*			
Matrix Spike Source: 0710357-01										
Gasoline Range Organics	574		ug/L	497.9	69.4	101	60-140			
Surrogate: 2,5-Dibromotoluene - FID	*57.9*		ug/L	*50.00*		*116*	*70-130*			
Surrogate: Trifluorotoluene - FID	*0.911*		mg/kg dry	*0.9368*		*97*	*70-130*			
Matrix Spike Dup Source: 0710357-01										
Gasoline Range Organics	591		ug/L	497.9	69.4	105	60-140	3	40	
Surrogate: 2,5-Dibromotoluene - FID	*54.0*		ug/L	*50.00*		*108*	*70-130*			
Surrogate: Trifluorotoluene - FID	*0.925*		mg/kg dry	*0.9368*		*99*	*70-130*			

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	
Project:	Atlas	Date Received:	
Client Sample ID:	PB29817B	SDG No.:	Y4978
Lab Sample ID:	PB29817B	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009689.D	1	10/23/2007	10/24/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	1.000	U	2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	1.000	U	2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	355.08	71 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	
Project:	Atlas	Date Received:	
Client Sample ID:	PB29817BS	SDG No.:	Y4978
Lab Sample ID:	PB29817BS	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009705.D	1	10/23/2007	10/25/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	5.7		2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	4.9		2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	477.31	95 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	
Project:	Atlas	Date Received:	
Client Sample ID:	PB29817TB	SDG No.:	Y4978
Lab Sample ID:	PB29817TB	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009692.D	1	10/23/2007	10/24/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	1.000	U	2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	1.000	U	2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	504.65	101 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	10/18/2007
Project:	Atlas	Date Received:	10/20/2007
Client Sample ID:	0710357-01MS	SDG No.:	Y4978
Lab Sample ID:	Y4978-01MS	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009701.D	1	10/23/2007	10/25/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	5.3		2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	9.0		2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	653.39	131 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	10/18/2007
Project:	Atlas	Date Received:	10/20/2007
Client Sample ID:	0710357-01MSD	SDG No.:	Y4978
Lab Sample ID:	Y4978-01MSD	Matrix:	TCLP
Analytical Method:	8151	% Moisture:	100
Sample Wt/Vol:	500 mL	Extract Vol:	5000 uL

File ID:	Dilution:	Date Prep	Date Analyzed	Analytical Batch ID
P8009702.D	1	10/23/2007	10/25/2007	P8102207

CAS Number	Parameter	Conc	Qualifier	RL	MDL	Units
TARGETS						
94-75-7	2,4-D	5.3		2.0	1.000	ug/L
93-72-1	2,4,5-TP (Silvex)	9.5		2.0	1.000	ug/L
SURROGATES						
	2,4-DCAA	653.24	131 %	45 - 140		SPK: 500

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

Chemtech

Surrogate Summary
SW-846

SDG No.: Y4978
Client: ESS Laboratory, inc.

Analytical Method: EPA SW-846 8151

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
PB29817B	PB29817B	2,4-DCAA	500	355.08	71		45.00	140.00
PB29817TB	PB29817TB	2,4-DCAA	500	504.65	101		45.00	140.00
Y4978-01	0710357-01	2,4-DCAA	500	536.68	107		45.00	140.00
Y4978-02	0710357-02	2,4-DCAA	500	665.11	133		45.00	140.00
Y4978-03	0710357-03	2,4-DCAA	500	605.46	121		45.00	140.00
Y4978-01MS	0710357-01MS	2,4-DCAA	500	653.39	131		45.00	140.00
Y4978-01MSD	0710357-01MSD	2,4-DCAA	500	653.24	131		45.00	140.00
PB29817BS	PB29817BS	2,4-DCAA	500	477.31	95		45.00	140.00

Chemtech

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y4978
Client: ESS Laboratory, inc.

Analytical Method: EPA SW-846 8151

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
Client Sample ID:	**0710357-01MS**									
Y4978-01MS	2,4-D	5.000	0	5.3	106			60	138	
	2,4,5-TP (Silvex)	5.000	0	9.0	180		*	48	140	
Client Sample ID:	**0710357-01MSD**									
Y4978-01MSD	2,4-D	5.000	0	5.3	106	0		60	138	20
	2,4,5-TP (Silvex)	5.000	0	9.5	190	5	*	48	140	20

Chemtech

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: Y4978
Client: ESS Laboratory, inc.

Analytical Method: EPA SW-846 8151

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits Low	Limits High	RPD
PB29817BS	2,4-D	5.000	5.7	114			60	138	
	2,4,5-TP (Silvex)	5.000	4.9	98			48	140	

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

Notes and Definitions

Z-08	See Attached
U	Analyte included in the analysis, but not detected
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.
J	Reported between MDL and MRL; Estimated value.
D+	Relative percent difference for duplicate is outside of criteria.
D	Diluted.
B-	Blank Spike recovery is below lower control limit.
B	Present in Blank.
>	Greater than.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

CERTIFICATE OF ANALYSIS

Client Name: RC & D
Client Project ID: BNAS

ESS Laboratory Work Order: 0710357

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP accredited): 242405
Potable Water
Non Potable Water

New York (NELAP accredited): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable Water
Non Potable Water
Soil and Hazardous Waste

Maryland: 301
Potable Water

ESS Laboratory ChemTech

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard Other 3 day
If faster than 5 days, prior approval by laboratory is required # ___
State where samples were collected from: MA RI CT NH NJ NY (ME) Other ___
Is this project for any of the following: MA-MCP (Navy) USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0710357

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other___

Co. Name

Project # QUOTE 20509073

Project Name (20 Char. or less)

Contact Person: Jena Paola

Address

City State Zip PO#

Telephone # Fax # Email Address

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 624 / 524.2	8021 ATBE/HTEX / 8015 GRO / VPH w/targets	8100 TPH / 8015 DRO	EPH w/o PAHs / EPH w/PAHs / EPH 4 Diesel	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA5 / RCRA8 / PP13 / TAL23	TCLP-RCRA8 / NBC7	MCP-METALS (13) / MCP-METALS (13) w/Hg	TCLP Herbicides				
	10-18-07	11:00	X		S	0710357-01	1	1	G										X				
	10-18-07	11:30	X		S	0710357-02	1	1	G										X				
	10-18-07	12:00	X		S	0710357-03	1	1	G										X				

Please return cooler

Container Type: P-Poly (G-Glass) S-Sterile V-VOA | Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ✓ Yes ___ No NA: ___
Cooler Temp: 4°C

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: (1- NP) 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Davis	10-19-07 1800						
				Fedex	10/20/07 10:10a	[signature]	10/20/07 10:10 AM

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/28/04 B

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: X Standard Other _____
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from: MA RI CT NH NJ NY (ME) Other _____
Is this project for any of the following: MA-MCP (Navy) USACE Other _____

Reporting Limits: ME RAGS/ EPA REGION 9
ESS LAB PROJECT ID: 0710357
Electronic Deliverable: X Yes ___ No
Format: Excel X Access ___ PDF ___ Other _____

Co. Name: RC+O INC.
Project #:
Project Name (20 Char. or less): BNAS
Contact Person: ROB SCHUSTER
Address: 17 GORDON AVENUE / SUITE 205
City: PROVIDENCE State: RI Zip: 02905 PO#:
Telephone #: 401-270-5483 Fax #: 401-270-5486 Email Address: rschuster@rcndinc.com

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	TCLP VOCs*	TCLP SVOC/PEST.	TCLP RCRA8	TCLP HERB.	TOTAL PCBS	REACTIVITY (CN/S)	FLASHPOINT	pH	GRO/DRO**				
1	10/18/07	1100	X		S	S9-P6-1A	1/6	9	G/V	X	X	X	X	X	X	X	X	X				
2	10/18/07	1130	X		S	S9-P6-2A	1/6	9	G/V	X	X	X	X	X	X	X	X	X				
3	10/18/07	1200	X		S	S9-P6-3A	1/6	9	G/V	X	X	X	X	X	X	X	X	X				
4						TRIP BLANK																

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: ✓ Yes ___ No
Seals Intact: ___ Yes ___ No NA: ___
Cooler Temp: 2.9
Internal Use Only [ ] Pickup [ ] Technicians ____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by: ROBERT SCHUSTER
Comments: * 5 VOA SAMPLES TO BE COMPOSITED BY LABORATORY
** DRO/GRO BY MAINE TPH 4.1.25/4.1.17

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10/19/07 1020		10/19/07 10:20				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A