Comprehensive Long-Term Environmental Action Navy (CLEAN) for Pacific Division, Naval Facilities Engineering Command Pearl Harbor, Hawaii

CTO NO. 0229

RED HILL BULK FUEL STORAGE FACILITY INVESTIGATION REPORT
VOLUME II OF III
(FINAL)

FOR
FLEET INDUSTRIAL SUPPLY CENTER
(FISC)
OAHU, HAWAII

HDOH FACILITY ID NO. UNASSIGNED
Fac. ID: 9-102271
Rel. ID: 990051, 020028, 010011

AUGUST 2002

I of II

Comprehensive Long-Term Environmental Action Navy (CLEAN) for Pacific Division, Naval Facilities Engineering Command Pearl Harbor, Hawaii

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JUNE 2002

Appendix 6

QUANTERRA, INC. DATA PACKAGE

TANK 9/16

Chain of Custody Record

Quanterra

QUA-4124

Client	Project Manager	Date	Chain Of Custody Number
OGDEN ENVIRONMENTAL	KENT B. EVETTS	29 OCT 98	42491
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
2904 Westcorp Blvd Ste 107	(256) 539-3016 (256) 539-3074		
City / **State** / **Zip Code**	**Site Contact**		
Huntsville / AL / 35805	F. Esquibel (505) 542-1197		
Project Name	**Carrier/Waybill Number**		
Red Hill Drill Assesment CTO 0229			
Contract/Purchase Order/Quote No.			
Bottle Order I.D. NO 3031			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	Analysis: TPH / PAH / BTEX
B09B-2	10/29/98	0935	Rock	V.K	16oz	1	None	-	
B09B-1	10/29/98	0820							
B09C-2	10/28/98	1215							
B09C-1	10/28/98	0937							
B09A-1	10/26/98	1508							
B09A-2	10/27/98	1515	X	X	X	X	X		

Special Instructions

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Turn Around Time Required
☒ Normal ☐ Rush

QC Level
☒ I. ☐ II. ☐ III.

Project Specific (Specify)

	Date	Time		Date	Time
1. Relinquished By: Frank Esquibel	10-29-98	1800	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

Quanterra

QUA-4124

Client	Project Manager	Date	Chain Of Custody Number
Olden Environmental	Kent B. Fuetts	24 Oct 98	42496
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2904 Westcorp Blvd Ste 107	(256) 539-3016 (256) 539-3074		
City / State / Zip Code	**Site Contact**		
Huntsville AL 35805	F. Esquibel (805) 542-1197		
Project Name	**Carrier/Waybill Number**		
Red Hill Drill Assessment CTO-0229			
Contract/Purchase Order/Quote No.			
Both Order I.D. No. 3031			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	Analysis: PAH	Analysis: BTEX
B16-Dup	—	—	Rock Core	unk	6oz	1	None		X	X
B16B-4	23oct-98	1053								
B16B-5	23Oct-98	1118								
B16C-4	26oct-98	0830								
B16C-5	26oct-98	0915								
B16A-4	10-22-98	1055	Rock							
B16A-5	10-22-98	1540	X	X	X	X	X		X	X
B16C	10-25-98	1000	Water	80ml	40ml	2	HCL			X
B16C	10-25-98	100	Water	1 Liter	1 Liter	1	None		X	X
B16C	10-25-98		Water	1 Liter	1 Liter	1	None		X	

Special Instructions

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Turn Around Time Required: [X] Normal [ ] Rush

QC Level: [X] I. [ ] II. [ ] III.

Project Specific (Specify)

	Date	Time
1. Relinquished By: Frank Esquibel	10-29-98	1800
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By		
2. Received By		
3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Quanterra Incorporated
880 Riverside Parkway
West Sacramento, California 95605

916 373-5600 Telephone
916 372-1059 Fax

December 10, 1998

QUANTERRA INCORPORATED PROJECT NUMBER: 302418
PO/CONTRACT: CTO-0229

Kent Evetts
Ogden Environmental and Energy Services
2904 Westcorp Boulevard
Huntsville, AL 35805

Dear Mr. Evetts,

This report contains the analytical results for the fourteen samples received under chain of custody by Quanterra Incorporated on November 2, 1998. These samples are associated with your Red Hill Drill Assesment CTO-0229 project.

The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916)374-4427.

Sincerely,

Nilo Ligi
Project Manager

Quanterra

TABLE OF CONTENTS

QUANTERRA INCORPORATED PROJECT NUMBER 302418

Quanterra

TABLE OF CONTENTS

QUANTERRA INCORPORATED PROJECT NUMBER 302418

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CASE NARRATIVE

QUANTERRA INCORPORATED PROJECT NUMBER 302418

Volatile Organics - Method 8260 (Aqueous)

Sample 302418-14 was diluted due to a foaming nature of the matrix. All reporting limits were adjusted accordingly.

Volatile - Organics - Method 8260 (Soil)

Some samples were analysed after holding time had expired. Samples were received on November 2 although some samples were collected on October 22. Additionally, the samples had to be sent out for crushing prior to analysis.

Polynuclear Aromatic Hydrocarbons - Method 8270 (Soil)

There was no surrogate recovery in samples 7, 10, 11, 12, and 13 as a result of dilutions required by high analyte levels in the samples.

Total Petroleum Hydrocarbons - Method TPH-D-TRIREGIONAL (Soil)

Samples 7, 10, 11, 12 and 13 would not concentrate below 5ml during the evaporation step. The final concentration of these samples was 30g/5ml instead 30g/3ml.

Sample Receipt

Sample temperature was 13 deg C upon receipt by the laboratory.

There were no other anomalies associated with this project.

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Quanterra - Western Region

Quality Control Definitions

QC Parameter	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: Quanterra® Quality Control Program, Policy QA-003, Rev. 0, 8/19/96.

CHAIN-OF-CUSTODY

PROJECT NAME: OGDEN ENV.
PO NUMBER: CONTACT PM
PROJECT MANAGER: Nilo Ligi

QUANTERRA *ENVIRONMENTAL SERVICES*
880 Riverside Parkway
West Sacramento, CA 95605
Phone #: (916) 373-5600

DUE: 25 NOV 98
TO: SIERRA TESTING LAB
5088B HILLSDALE CIRCLE
EL DORADO HILLS, CA 95762

SAMPLE DESCRIPTION	LAB ID	DATE	TIME	MATRIX	CONTAINERS	ANALYSES: CRUSHING	REMARKS/ SPCL INSTR
B09B-2	302418-0001 SA	29 OCT 98	09:35	SOIL	500GJ	X	
B09B-1	302418-0002 SA	29 OCT 98	08:20	SOIL		X	
B09C-2	302418-0003 SA	28 OCT 98	12:15	SOIL		X	
B09C-1	302418-0004 SA	28 OCT 98	09:37	SOIL		X	
B09A-1	302418-0005 SA	26 OCT 98	18:08	SOIL		X	
B09A-2	302418-0006 SA	27 OCT 98	15:15	SOIL		X	
B16-DUP	302418-0007 SA	23 OCT 98		SOIL		X	
B16B-4	302418-0008 SA	23 OCT 98	10:53	SOIL		X	
B16B-5	302418-0009 SA	23 OCT 98	11:18	SOIL		X	
B16C-4	302418-0010 SA	26 OCT 98	08:30	SOIL		X	
B16C-5	302418-0011 SA	26 OCT 98	09:15	SOIL		X	
B16A-4	302418-0012 SA	22 OCT 98	10:55	SOIL		X	
B16A-5	302418-0013 SA	22 OCT 98	15:40	SOIL	↓	X	

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
Relinquished by:		Nilo Ligi	QT	11/2/98	11:30
Received by:					
Relinquished by:					
Received by:					

Comments: PLEASE CONTACT NILO LIGI IF THERE ARE ANY QUESTIONS. log #5001

QA373 4/96 CMD

Quanterra

QC LOT ASSIGNMENT REPORT
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (LCS/BLANK)
302418-0014-SA	AQUEOUS	8260-A	11 NOV 98-4A	11 NOV 98-4A

Quanterra

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 302418

Test: 8260-A STD-Volatile Organics, EPA 8260
Method: 8260
Matrix: AQUEOUS
QC Lot: 11 NOV 98-4A QC Run: 11 NOV 98-4A
Analyzed: 11 NOV 98 Time: 17:42

Analyte	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/L	1.0	
Toluene	ND	ug/L	1.0	
Ethylbenzene	ND	ug/L	1.0	
Xylenes (total)	ND	ug/L	1.0	

Surrogate	% Recovery	Acceptable Range
1,2-Dichloroethane-d4	90	75 -121
Toluene-d8	91	85 -111
4-Bromofluorobenzene	91	81 -117

ND = Not Detected

DUPLICATE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 302418

Category: 8260-A 8260, Aqueous
Testcode: 8260-A Method: 8260
Matrix: AQUEOUS Concentration Units: ug/L
QC Lot: 11 NOV 98-4A Analyzed Date: 11 NOV 98 Time: 18:41

Analyte	Concentration Spiked	Concentration Measured DCS1	Concentration Measured DCS2	Accuracy (%) DCS1	Accuracy (%) DCS2	Limits	Precision (RPD) DCS	Precision (RPD) Limit
1,1-Dichloroethene	10.0	9.55	9.41	96	94	79-119	1.6	12
Benzene	10.0	9.36	9.27	94	93	74-114	0.98	10
Trichloroethene	10.0	10.3	10.8	103	108	72-112	4.8	13
Toluene	10.0	9.92	9.77	99	98	71-111	1.5	10
Chlorobenzene	10.0	8.94	9.08	89	91	72-112	1.5	10

Surrogate	Concentration Spiked	Concentration Measured DCS1	Concentration Measured DCS2	Accuracy(%) DCS1	Accuracy(%) DCS2	Limits
1,2-Dichloroethane-d4	10.0	9.49	9.27	95	93	75-121
Toluene-d8	10.0	9.33	8.94	93	89	85-111
4-Bromofluorobenzene	10.0	9.49	9.33	95	93	81-117

Calculations are performed before rounding to avoid round-off errors in calculated results.

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QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
302418-0001-SA	SOIL	8260L-S		10 NOV 98-2A	10 NOV 98-2A
302418-0002-SA	SOIL	8260L-S		10 NOV 98-2A	10 NOV 98-2A
302418-0003-SA	SOIL	8260L-S		10 NOV 98-2A	10 NOV 98-2A
302418-0004-SA	SOIL	8260L-S		10 NOV 98-2A	10 NOV 98-2A
302418-0005-SA	SOIL	8260L-S		10 NOV 98-2A	10 NOV 98-2A
302418-0006-SA	SOIL	8260L-S		21 NOV 98-61	21 NOV 98-61
302418-0007-SA	SOIL	8260L-S	23 NOV 98-6A	23 NOV 98-6A	
302418-0008-SA	SOIL	8260L-S		11 NOV 98-2A	11 NOV 98-2A
302418-0009-SA	SOIL	8260L-S		11 NOV 98-2A	11 NOV 98-2A
302418-0010-SA	SOIL	8260L-S		21 NOV 98-61	21 NOV 98-61
302418-0011-SA	SOIL	8260L-S		11 NOV 98-2A	11 NOV 98-2A
302418-0012-SA	SOIL	8260L-S		21 NOV 98-61	21 NOV 98-61
302418-0013-SA	SOIL	8260L-S		11 NOV 98-2A	11 NOV 98-2A

Quanterra

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 302418

Test: 8260L-S Volatile Organics
Method: 8260
Matrix: SOIL
QC Lot: 10 NOV 98-21 QC Run: 10 NOV 98-2A
Analyzed: 10 NOV 98 Time: 16:34

Analyte	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
M&P Xylene	ND	ug/kg	5.0	
o-Xylene	ND	ug/kg	5.0	

Surrogate	% Recovery	Acceptable Range
Toluene-d8	88	84 -110
4-Bromofluorobenzene	92	79 -112
1,2-Dichloroethane-d4	96	80 -120

Test: 8260L-S Volatile Organics
Method: 8260
Matrix: SOIL
QC Lot: 21 NOV 98-61 QC Run: 21 NOV 98-61
Analyzed: 21 NOV 98 Time: 18:32

Analyte	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
M&P Xylene	ND	ug/kg	5.0	
o-Xylene	ND	ug/kg	5.0	

Surrogate	% Recovery	Acceptable Range
Toluene-d8	103	84 -110
4-Bromofluorobenzene	100	79 -112
1,2-Dichloroethane-d4	97	80 -120

ND = Not Detected

Quanterra

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 302418

Test: 8260L-S
Method: 8260
Matrix: SOIL
QC Lot: 23 NOV 98-6A
Analyzed: 23 NOV 98

Volatile Organics

QC Run: 23 NOV 98-6A
Time: 16:38

Analyte	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
M&P Xylene	ND	ug/kg	5.0	
o-Xylene	ND	ug/kg	5.0	

Surrogate	% Recovery	Acceptable Range
Toluene-d8	104	84 -110
4-Bromofluorobenzene	100	79 -112
1,2-Dichloroethane-d4	91	80 -120

Test: 8260L-S
Method: 8260
Matrix: SOIL
QC Lot: 11 NOV 98-21
Analyzed: 11 NOV 98

Volatile Organics

QC Run: 11 NOV 98-2A
Time: 17:01

Analyte	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
M&P Xylene	ND	ug/kg	5.0	
o-Xylene	ND	ug/kg	5.0	

Surrogate	% Recovery	Acceptable Range
Toluene-d8	85	84 -110
4-Bromofluorobenzene	88	79 -112
1,2-Dichloroethane-d4	91	80 -120

ND = Not Detected

Quanterra

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 302418

Category: 8260L-S Volatile Organics
Testcode: 8260L-S Method: 8260
Matrix: SOIL Concentration Units: ug/kg
QC Lot: 10 NOV 98-21 QC Run: 10 NOV 98-2A
Analyzed Date: 10 NOV 98 Time: 14:19

Analyte	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
1,1-Dichloroethene	50.0	46.0	92	58-117
Trichloroethene	50.0	42.6	85	67-123
Benzene	50.0	47.6	95	68-121
Toluene	50.0	48.1	96	73-116
Chlorobenzene	50.0	48.8	98	74-114

Surrogate	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
1,2-Dichloroethane-d4	50.0	46.3	93	80-120
Toluene-d8	50.0	49.4	99	84-110
4-Bromofluorobenzene	50.0	48.5	97	79-112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 302418

Category: 8260L-S Volatile Organics
Testcode: 8260L-S Method: 8260
Matrix: SOIL Concentration Units: ug/kg
QC Lot: 11 NOV 98-21 QC Run: 11 NOV 98-2A
Analyzed Date: 11 NOV 98 Time: 13:00

Analyte	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
1,1-Dichloroethene	50.0	45.2	90	58-117
Trichloroethene	50.0	41.0	82	67-123
Benzene	50.0	48.3	97	68-121
Toluene	50.0	47.5	95	73-116
Chlorobenzene	50.0	47.6	95	74-114

Surrogate	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
1,2-Dichloroethane-d4	50.0	43.8	88	80-120
Toluene-d8	50.0	49.2	98	84-110
4-Bromofluorobenzene	50.0	46.1	92	79-112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 302418

Category: 8260L-S Volatile Organics
Testcode: 8260L-S Method: 8260
Matrix: SOIL Concentration Units: ug/kg
QC Lot: 21 NOV 98-61 QC Run: 21 NOV 98-61
Analyzed Date: 21 NOV 98 Time: 16:07

Analyte	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
1,1-Dichloroethene	50.0	41.4	83	58-117
Trichloroethene	50.0	49.2	98	67-123
Benzene	50.0	45.7	91	68-121
Toluene	50.0	38.4	77	73-116
Chlorobenzene	50.0	47.8	96	74-114

Surrogate	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
1,2-Dichloroethane-d4	50.0	48.9	98	80-120
Toluene-d8	50.0	42.7	85	84-110
4-Bromofluorobenzene	50.0	51.2	102	79-112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

DUPLICATE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 302418

Category: 8260L-S Volatile Organics
Testcode: 8260L-S Method: 8260
Matrix: SOIL Concentration Units: ug/kg
QC Lot: 23 NOV 98-6A Analyzed Date: 23 NOV 98 Time: 15:25

Analyte	Concentration Spiked	Concentration Measured DCS1	Concentration Measured DCS2	Accuracy (%) DCS1	Accuracy (%) DCS2	Limits	Precision (RPD) DCS	Precision (RPD) Limit
1,1-Dichloroethene	50.0	47.2	47.1	94	94	58-117	0.25	16
Trichloroethene	50.0	49.9	52.3	100	105	67-123	4.5	15
Benzene	50.0	49.0	49.8	98	100	68-121	1.5	15
Toluene	50.0	49.6	50.5	99	101	73-116	1.8	15
Chlorobenzene	50.0	48.0	48.7	96	97	74-114	1.4	15

Surrogate	Concentration Spiked	Concentration Measured DCS1	Concentration Measured DCS2	Accuracy(%) DCS1	Accuracy(%) DCS2	Limits
1,2-Dichloroethane-d4	50.0	46.9	47.3	94	95	80-120
Toluene-d8	50.0	51.8	53.2	104	106	84-110
4-Bromofluorobenzene	50.0	50.9	51.1	102	102	79-112

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 302418

Category: 8260L-S Volatile Organics
Test : 8260L-S Method: 8260
Matrix : SOIL
Sample : 302418-0001
MS Run : 10 NOV 98-2A
Units : ug/kg Units Qualifier: Wet wt.

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS	Amount Spiked MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	ND	45.6	47.4	50.0	50.0	91	95	3.7	58-117	16
Trichloroethene	ND	39.0	42.2	50.0	50.0	78	84	7.8	67-123	15
Benzene	ND	47.3	49.0	50.0	50.0	95	98	3.6	68-121	15
Toluene	ND	45.4	47.2	50.0	50.0	91	94	3.8	73-116	15
Chlorobenzene	ND	47.7	50.7	50.0	50.0	95	101	6.1	74-114	15

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	82	94	99	80-120
Toluene-d8	88	98	97	84-110
4-Bromofluorobenzene	87	98	103	79-112

Category: 8260L-S Volatile Organics
Test : 8260L-S Method: 8260
Matrix : SOIL
Sample : 302418-0010
MS Run : 21 NOV 98-61
Units : ug/kg Units Qualifier: Wet wt.

Analyte	Sample Result		MS Result	MSD Result	Amount Spiked MS	Amount Spiked MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	ND		196	201	250	250	79	80	2.3	58-117	16
Trichloroethene	ND		216	228	250	250	86	91	5.3	67-123	15
Benzene	ND	G	240	253	250	250	96	101	5.3	68-121	15
Toluene	ND		221	231	250	250	88	93	4.7	73-116	15
Chlorobenzene	ND		235	241	250	250	94	97	2.8	74-114	15

G = Reporting limit(s) raised due to matrix interference.
ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

TRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
atile Organics by GC/MS
roject: 302418 (cont.)

Surrogates	Sample %Recovery	%Recovery MS	MSD		Acceptance Limit Recovery
1,2-Dichloroethane-d4	100	94	97		80-120
Toluene-d8	103	98	103		84-110
4-Bromofluorobenzene	74	108	121	I	79-112

Category: 8260L-S Volatile Organics
Test : 8260L-S Method: 8260
Matrix : SOIL
Sample : 302418-0008
MS Run : 11 NOV 98-2A
Units : ug/kg Units Qualifier: Wet wt.

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS	MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
1,1-Dichloroethene	ND	42.3	42.5	50.0	50.0	85	85	0.36	58-117	16
Trichloroethene	ND	37.2	37.4	50.0	50.0	74	75	0.42	67-123	15
nzene	ND	44.8	44.0	50.0	50.0	90	88	1.7	68-121	15
luene	ND	44.2	42.1	50.0	50.0	88	84	4.9	73-116	15
hlorobenzene	ND	48.1	47.5	50.0	50.0	96	95	1.3	74-114	15

Surrogates	Sample %Recovery	%Recovery MS	MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	87	84	87	80-120
Toluene-d8	86	87	85	84-110
4-Bromofluorobenzene	93	93	92	79-112

I = Surrogate recovery outside of limits due to sample matrix interference.
ND = Not Detected

lculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

QC LOT ASSIGNMENT REPORT - MS QC
Semivolatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
302418-0014-SA	AQUEOUS	PAH-A	03 NOV 98-11C	03 NOV 98-11C	

Quanterra

METHOD BLANK REPORT (cont.)
Semivolatile Organics by GC/MS
Project: 302418

Test: 8270-PAH-A Polynuclear Aromatic Hydrocarbons, GC/MS
Method: 8270
Matrix: AQUEOUS
QC Lot: 03 NOV 98-11C QC Run: 03 NOV 98-11C
Analyzed: 03 DEC 98 Time: 17:15

Analyte	Result	Units	Reporting Limit	Qualifier
Naphthalene	ND	ug/L	10	
Acenaphthylene	ND	ug/L	10	
Acenaphthene	ND	ug/L	10	
Fluorene	ND	ug/L	10	
Phenanthrene	ND	ug/L	10	
Anthracene	ND	ug/L	10	
Fluoranthene	ND	ug/L	10	
Pyrene	ND	ug/L	10	
Benzo(a)anthracene	ND	ug/L	10	
Chrysene	ND	ug/L	10	
Benzo(b)fluoranthene	ND	ug/L	10	
Benzo(k)fluoranthene	ND	ug/L	10	
Benzo(a)pyrene	ND	ug/L	10	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10	
Dibenz(a,h)anthracene	ND	ug/L	10	
Benzo(g,h,i)perylene	ND	ug/L	10	

Surrogate	% Recovery	Acceptable Range
Nitrobenzene-d5	77	36 -114
2-Fluorobiphenyl	78	43 -116
Terphenyl-d14	79	33 -141

ND = Not Detected

Quanterra

DUPLICATE CONTROL SAMPLE REPORT
Semivolatile Organics by GC/MS
Project: 302418

Category: PAH-A Polynuclear Aromatic Hydrocarbons, GC/MS
Testcode: 8270-PAH-A Method: 8270
Matrix: AQUEOUS Concentration Units: ug/L
QC Lot: 03 NOV 98-11C Analyzed Date: 03 DEC 98 Time: 18:30

Analyte	Concentration Spiked	Concentration Measured DCS1	Concentration Measured DCS2	Accuracy (%) DCS1	Accuracy (%) DCS2	Limits	Precision (RPD) DCS	Precision (RPD) Limit
Naphthalene	50.0	38.7	47.3	77	95	60-140	20	30
Acenaphthylene	50.0	43.1	51.0	86	102	60-140	17	30
Acenaphthene	50.0	42.4	50.6	85	101	60-140	18	30
Fluorene	50.0	43.8	50.7	88	101	60-140	15	30
Phenanthrene	50.0	44.7	51.2	89	102	60-140	14	30
Anthracene	50.0	43.5	49.1	87	98	60-140	12	30
Fluoranthene	50.0	45.7	49.5	91	99	60-140	8.0	30
Pyrene	50.0	48.7	56.5	97	113	60-140	15	30
Benzo(a)anthracene	50.0	45.2	49.4	90	99	60-140	8.9	30
Chrysene	50.0	46.7	50.8	93	102	60-140	8.4	30
Benzo(b)fluoranthene	50.0	41.6	44.3	83	89	60-140	6.2	30
Benzo(k)fluoranthene	50.0	52.4	58.9	105	118	60-140	12	30
Benzo(a)pyrene	50.0	41.8	45.9	84	92	60-140	9.4	30
Indeno(1,2,3-cd) pyrene	50.0	45.5	46.9	91	94	60-140	3.0	30
Dibenz(a,h)anthracene	50.0	45.6	45.3	91	91	60-140	0.68	30
Benzo(g,h,i)perylene	50.0	45.9	46.7	92	93	60-140	1.8	30

Surrogate	Concentration Spiked	Concentration Measured DCS1	Concentration Measured DCS2	Accuracy(%) DCS1	Accuracy(%) DCS2	Limits
Nitrobenzene-d5	50	32	39	63	77	36-114
2-Fluorobiphenyl	50	35	42	70	85	43-116
Terphenyl-d14	50	38	44	76	87	33-141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

QC LOT ASSIGNMENT REPORT - MS QC
Semivolatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
302418-0001-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0002-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0003-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0004-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0005-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0006-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0007-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0008-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0009-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0010-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0011-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0012-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A
302418-0013-SA	SOIL	PAH-S		05 NOV 98-12A	05 NOV 98-12A

Quanterra

METHOD BLANK REPORT
Semivolatile Organics by GC/MS
Project: 302418

Test: 8270-PAH-L-S Polynuclear Aromatic Hydrocarbons, GC/MS
Method: 8270
Matrix: SOIL
QC Lot: 05 NOV 98-12A QC Run: 05 NOV 98-12A
Analyzed: 02 DEC 98 Time: 13:52

Analyte	Result	Units	Reporting Limit	Qualifier
Naphthalene	ND	ug/kg	330	
Acenaphthylene	ND	ug/kg	330	
Acenaphthene	ND	ug/kg	330	
Fluorene	ND	ug/kg	330	
Phenanthrene	ND	ug/kg	330	
Anthracene	ND	ug/kg	330	
Fluoranthene	ND	ug/kg	330	
Pyrene	ND	ug/kg	330	
Benzo(a)anthracene	ND	ug/kg	330	
Chrysene	ND	ug/kg	330	
Benzo(b)fluoranthene	ND	ug/kg	330	
Benzo(k)fluoranthene	ND	ug/kg	330	
Benzo(a)pyrene	ND	ug/kg	330	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	
Dibenz(a,h)anthracene	ND	ug/kg	330	
Benzo(g,h,i)perylene	ND	ug/kg	330	

Surrogate	% Recovery	Acceptable Range
Nitrobenzene-d5	88	35 -114
2-Fluorobiphenyl	99	39 -115
Terphenyl-d14	112	40 -127

ND = Not Detected

Quanterra

LABORATORY CONTROL SAMPLE REPORT
Semivolatile Organics by GC/MS
Project: 302418

Category: PAH-S Polynuclear Aromatic Hydrocarbons, GC/MS
Testcode: 8270-PAH-L-S Method: 8270
Matrix: SOIL Concentration Units: ug/kg
QC Lot: 05 NOV 98-12A QC Run: 05 NOV 98-12A
Analyzed Date: 02 DEC 98 Time: 14:29

Analyte	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
Naphthalene	1660	1840	110	60-140
Acenaphthylene	1660	1720	103	60-140
Acenaphthene	1660	1790	107	60-140
Fluorene	1660	1660	100	60-140
Phenanthrene	1660	1710	103	60-140
Anthracene	1660	1310	79	60-140
Fluoranthene	1660	1710	103	60-140
Pyrene	1660	1960	118	60-140
Benzo(a)anthracene	1660	1650	99	60-140
Chrysene	1660	1820	109	60-140
Benzo(b)fluoranthene	1660	1690	102	60-140
Benzo(k)fluoranthene	1660	2130	128	60-140
Benzo(a)pyrene	1660	1240	74	60-140
Indeno(1,2,3-cd)pyrene	1660	2050	123	60-140
Dibenz(a,h)anthracene	1660	2000	120	60-140
Benzo(g,h,i)perylene	1660	2060	124	60-140

Surrogate	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
Nitrobenzene-d5	1670	1510	91	35-114
2-Fluorobiphenyl	1670	1700	102	39-115
Terphenyl-d14	1670	1710	103	40-127

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
[illegible]ivolatile Organics by GC/MS
[illegible]oject: 302418

Category: PAH-S Polynuclear Aromatic Hydrocarbons, GC/MS
Test : 8270-PAH-L-S Method: 8270
Matrix : SOIL
Sample : 302418-0002
MS Run : 05 NOV 98-12A
Units : ug/kg Units Qualifier: Wet wt.

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS	Amount Spiked MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Naphthalene	ND	1790	1780	1660	1660	107	107	0.28	60-140	30
Acenaphthylene	ND	1740	1720	1660	1660	105	103	1.3	60-140	30
Acenaphthene	ND	1840	1780	1660	1660	110	107	3.0	60-140	30
Fluorene	ND	1730	1690	1660	1660	104	101	2.4	60-140	30
Phenanthrene	ND	1850	1760	1660	1660	111	106	5.0	60-140	30
Anthracene	ND	1390	1400	1660	1660	83	84	0.57	60-140	30
Fluoranthene	ND	1680	1710	1660	1660	101	103	1.8	60-140	30
Pyrene	ND	2080	1980	1660	1660	125	119	5.0	60-140	30
Benzo(a)anthracene	ND	1760	1710	1660	1660	106	103	2.5	60-140	30
Chrysene	ND	1830	1820	1660	1660	110	110	0.55	60-140	30
Benzo(b)fluoranthene	ND	1800	1760	1660	1660	108	106	2.4	60-140	30
Benzo(k)fluoranthene	ND	2220	2060	1660	1660	133	124	7.4	60-140	30
[illegible]enzo(a)pyrene	ND	1390	1340	1660	1660	84	80	4.2	60-140	30
[illegible]leno(1,2,3-cd) [illegible]pyrene	ND	1680	1730	1660	1660	101	104	3.3	60-140	30
Dibenz(a,h) anthracene	ND	1710	1700	1660	1660	103	102	0.53	60-140	30
Benzo(g,h,i)perylene	ND	1540	1600	1660	1660	93	96	3.5	60-140	30

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
Nitrobenzene-d5	81	88	87	35-114
2-Fluorobiphenyl	91	101	98	39-115
Terphenyl-d14	105	110	102	40-127

ND = Not Detected

[illegible]culations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

QC LOT ASSIGNMENT REPORT - MS QC
Hydrocarbon Work Cell

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
302418-0014-SA	AQUEOUS	TPH-D-TR-A		03 NOV 98-12R	03 NOV 98-12R

Quanterra

METHOD BLANK REPORT
Hydrocarbon Work Cell
Project: 302418

Test: TPH-D-TR-A Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method: TPH-D-TRIREGIONAL
Matrix: AQUEOUS
QC Lot: 03 NOV 98-12R QC Run: 03 NOV 98-12R
Analyzed: 10 NOV 98 Time: 19:25

Analyte	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	50	
Motor Oil(n-C19 through n-C36)	ND	ug/L	200	
Unknown hydrocarbon	ND	ug/L	50	

Surrogate	% Recovery	Acceptable Range
o-Terphenyl	88	73 -134

ND = Not Detected

Quanterra

LABORATORY CONTROL SAMPLE REPORT
Hydrocarbon Work Cell
Project: 302418

Category: TPH-D-TR-A Petroleum Hydrocarbons (Diesel), Tri-Regional
Testcode: TPH-D-TR-A Method: TPH-D-TRIREGIONA
Matrix: AQUEOUS Concentration Units: ug/L
QC Lot: 03 NOV 98-12R QC Run: 03 NOV 98-12R
Analyzed Date: 10 NOV 98 Time: 20:25

Analyte	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
Diesel Fuel	300	235	78	57-112

Surrogate	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
o-Terphenyl	40.0	40.8	102	73-134

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Hydrocarbon Work Cell
Project: 302418

Category: TPH-D-TR-A Petroleum Hydrocarbons (Diesel), Tri-Regional
Test : TPH-D-TR-A Method: TPH-D-TRIREGIONAL
Matrix : AQUEOUS
Sample : 302305-0001
MS Run : 03 NOV 98-12R
Units : ug/L

Analyte	Sample Result (Concentration)	MS Result (Concentration)	MSD Result (Concentration)	Amount Spiked MS	Amount Spiked MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Diesel Fuel	ND	906	921	1200	1200	75	77	1.7	57-112	23

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
o-Terphenyl	89	96	96	73-134

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

QC LOT ASSIGNMENT REPORT - MS QC
Hydrocarbon Work Cell

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
302418-0001-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0002-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0003-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0004-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0005-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0006-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0007-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0008-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0009-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0010-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0011-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0012-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J
302418-0013-SA	SOIL	TPH-D-TR-S		06 NOV 98-14J	06 NOV 98-14J

Quanterra

METHOD BLANK REPORT
Hydrocarbon Work Cell
Project: 302418

Test: TPH-D-TR-S Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method: TPH-D-TRIREGIONAL
Matrix: SOIL
QC Lot: 06 NOV 98-14J QC Run: 06 NOV 98-14J
Analyzed: 30 NOV 98 Time: 18:59

Analyte	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	mg/kg	1.0	
Motor Oil(n-C19 through n-C36)	ND	mg/kg	5.0	
Unknown hydrocarbon	ND	mg/kg	1.0	

Surrogate	% Recovery	Acceptable Range
o-Terphenyl	128	61 -135

ND = Not Detected

Quanterra

LABORATORY CONTROL SAMPLE REPORT
Hydrocarbon Work Cell
Project: 302418

Category: TPH-D-TR-S Petroleum Hydrocarbons (Diesel), Tri-Regional
Testcode: TPH-D-TR-S Method: TPH-D-TRIREGIONA
Matrix: SOIL Concentration Units: mg/kg
QC Lot: 06 NOV 98-14J QC Run: 06 NOV 98-14J
Analyzed Date: 30 NOV 98 Time: 19:30

Analyte	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
Diesel Fuel	10.0	9.29	93	54-128

Surrogate	-----Concentration----- Spiked	Measured	Accuracy(%) LCS	Limits
o-Terphenyl	1.33	1.38	103	61-135

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
drocarbon Work Cell
Project: 302418

Category: TPH-D-TR-S Petroleum Hydrocarbons (Diesel), Tri-Regional
Test : TPH-D-TR-S Method: TPH-D-TRIREGIONAL
Matrix : SOIL
Sample : 302418-0001
MS Run : 06 NOV 98-14J
Units : mg/kg

Analyte	Sample Result	MS Result	MSD Result	Amount Spiked MS	Amount Spiked MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
Diesel Fuel	ND	9.38	13.1	10.0	10.0	94	131	33	54-128	28

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
o-Terphenyl	90.5	97.8	126	61-135

ND = Not Detected

lculations are performed before rounding to avoid round-off errors in calculated results.

Appendix 7

ACCUTEST LABORATORY DATA PACKAGE

TANK 1

ACCUTEST.

03/01/01

Technical Report for

Ogden Environmental

CTO 229

1-1019-0229

Accutest Job Number: F8944

Report to:

Ogden Environmental
2904 Westcorp Blvd.
Suite 204
Huntsville, AL 35805

ATTN: Kent Evetts

Total number of pages in report: 581

Harry Behzadi, Ph.D.
Laboratory Director

Sample Summary

Ogden Environmental

Job No: F8944

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F8944-1	02/08/01	00:00	JLD	02/12/01	AQ	Trip Blank Soil	TRIP BLANK
F8944-2	02/07/01	14:30	JLD	02/12/01	SO	Solid	RH-BR-1-S01
F8944-3	02/08/01	08:27	JLD	02/12/01	SO	Solid	RH-BR-1-S02
F8944-4	02/08/01	13:39	JLD	02/12/01	SO	Solid	RH-BR-1-S03
F8944-5	02/08/01	13:39	JLD	02/12/01	SO	Solid	RH-BR-1-D09
F8944-6	02/08/01	13:52	JLD	02/12/01	SO	Solid	RH-BR-1-S04
F8944-7	02/09/01	09:27	JLD	02/12/01	SO	Solid	RH-BR-1-S05

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8944-1	Date Sampled:	02/08/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B004017.D	1	02/16/01	JG	n/a	n/a	VB154
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8944-1	Date Sampled:	02/08/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	72.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011043.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	3400	ug/kg	
71-43-2	Benzene	ND	340	ug/kg	
75-27-4	Bromodichloromethane	ND	340	ug/kg	
75-25-2	Bromoform	ND	340	ug/kg	
108-90-7	Chlorobenzene	ND	340	ug/kg	
75-00-3	Chloroethane	ND	340	ug/kg	
67-66-3	Chloroform	ND	340	ug/kg	
75-15-0	Carbon disulfide	ND	680	ug/kg	
56-23-5	Carbon tetrachloride	ND	340	ug/kg	
75-34-3	1,1-Dichloroethane	ND	340	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	340	ug/kg	
107-06-2	1,2-Dichloroethane	ND	340	ug/kg	
78-87-5	1,2-Dichloropropane	ND	340	ug/kg	
124-48-1	Dibromochloromethane	ND	340	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	340	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	340	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	340	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	340	ug/kg	
100-41-4	Ethylbenzene	ND	340	ug/kg	
591-78-6	2-Hexanone	ND	680	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	680	ug/kg	
74-83-9	Methyl bromide	ND	340	ug/kg	
74-87-3	Methyl chloride	ND	340	ug/kg	
75-09-2	Methylene chloride	ND	680	ug/kg	
78-93-3	Methyl ethyl ketone	ND	680	ug/kg	
100-42-5	Styrene	ND	340	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	340	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	340	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	340	ug/kg	
127-18-4	Tetrachloroethylene	ND	340	ug/kg	
108-88-3	Toluene	ND	340	ug/kg	
79-01-6	Trichloroethylene	ND	340	ug/kg	
75-01-4	Vinyl chloride	ND	340	ug/kg	
1330-20-7	Xylene (total)	ND	1000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	72.9
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		71-122%
2037-26-5	Toluene-D8	95%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	86%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	72.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006587.D	40	02/20/01	ME	02/19/01	OP2747	SL393
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	46000	ug/kg	
95-57-8	2-Chlorophenol	ND	18000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	18000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	18000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	46000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	46000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	37000	ug/kg	
95-48-7	2-Methylphenol	ND	18000	ug/kg	
	3&4-Methylphenol	ND	18000	ug/kg	
88-75-5	2-Nitrophenol	ND	18000	ug/kg	
100-02-7	4-Nitrophenol	ND	46000	ug/kg	
87-86-5	Pentachlorophenol	ND	46000	ug/kg	
108-95-2	Phenol	ND	18000	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	18000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	18000	ug/kg	
83-32-9	Acenaphthene	ND	18000	ug/kg	
208-96-8	Acenaphthylene	ND	18000	ug/kg	
120-12-7	Anthracene	ND	18000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	18000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	18000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	18000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	18000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	18000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	18000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	18000	ug/kg	
100-51-6	Benzyl Alcohol	ND	18000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	18000	ug/kg	
106-47-8	4-Chloroaniline	ND	18000	ug/kg	
86-74-8	Carbazole	ND	18000	ug/kg	
218-01-9	Chrysene	ND	18000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	18000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	18000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	18000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	18000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	18000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	18000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	72.9
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	18000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	18000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	18000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	37000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	18000	ug/kg	
132-64-9	Dibenzofuran	ND	18000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	18000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	18000	ug/kg	
84-66-2	Diethyl phthalate	ND	18000	ug/kg	
131-11-3	Dimethyl phthalate	ND	18000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	18000	ug/kg	
206-44-0	Fluoranthene	ND	18000	ug/kg	
86-73-7	Fluorene	ND	18000	ug/kg	
118-74-1	Hexachlorobenzene	ND	18000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	18000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	18000	ug/kg	
67-72-1	Hexachloroethane	ND	18000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	18000	ug/kg	
78-59-1	Isophorone	ND	18000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	18000	ug/kg	
88-74-4	2-Nitroaniline	ND	18000	ug/kg	
99-09-2	3-Nitroaniline	ND	18000	ug/kg	
100-01-6	4-Nitroaniline	ND	18000	ug/kg	
91-20-3	Naphthalene	ND	18000	ug/kg	
98-95-3	Nitrobenzene	ND	18000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	18000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	18000	ug/kg	
85-01-8	Phenanthrene	ND	18000	ug/kg	
129-00-0	Pyrene	ND	18000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	18000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		36-129%
4165-62-2	Phenol-d5	0% [b]		38-135%
118-79-6	2,4,6-Tribromophenol	0% [b]		37-144%
4165-60-0	Nitrobenzene-d5	0% [b]		36-135%
321-60-8	2-Fluorobiphenyl	0% [b]		44-135%
1718-51-0	Terphenyl-d14	0% [b]		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	72.9
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	72.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01285.D	1000	02/21/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	25300	11000	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	Date Sampled:	02/07/01
Matrix:	SO - Solid	Date Received:	02/12/01
		Percent Solids:	72.9
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	293	13.4	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	96.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011044.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2600	ug/kg	
71-43-2	Benzene	ND	260	ug/kg	
75-27-4	Bromodichloromethane	ND	260	ug/kg	
75-25-2	Bromoform	ND	260	ug/kg	
108-90-7	Chlorobenzene	ND	260	ug/kg	
75-00-3	Chloroethane	ND	260	ug/kg	
67-66-3	Chloroform	ND	260	ug/kg	
75-15-0	Carbon disulfide	ND	520	ug/kg	
56-23-5	Carbon tetrachloride	ND	260	ug/kg	
75-34-3	1,1-Dichloroethane	ND	260	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	260	ug/kg	
107-06-2	1,2-Dichloroethane	ND	260	ug/kg	
78-87-5	1,2-Dichloropropane	ND	260	ug/kg	
124-48-1	Dibromochloromethane	ND	260	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	260	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	260	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	260	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	260	ug/kg	
100-41-4	Ethylbenzene	ND	260	ug/kg	
591-78-6	2-Hexanone	ND	520	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	520	ug/kg	
74-83-9	Methyl bromide	ND	260	ug/kg	
74-87-3	Methyl chloride	ND	260	ug/kg	
75-09-2	Methylene chloride	ND	520	ug/kg	
78-93-3	Methyl ethyl ketone	ND	520	ug/kg	
100-42-5	Styrene	ND	260	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	260	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	260	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	260	ug/kg	
127-18-4	Tetrachloroethylene	ND	260	ug/kg	
108-88-3	Toluene	ND	260	ug/kg	
79-01-6	Trichloroethylene	ND	260	ug/kg	
75-01-4	Vinyl chloride	ND	260	ug/kg	
1330-20-7	Xylene (total)	ND	790	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated *method* blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	96.4
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	86%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	96.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006588.D	1	02/20/01	ME	02/19/01	OP2747	SL393
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	860	ug/kg	
95-57-8	2-Chlorophenol	ND	340	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	340	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	340	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	860	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	860	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	ug/kg	
95-48-7	2-Methylphenol	ND	340	ug/kg	
	3&4-Methylphenol	ND	340	ug/kg	
88-75-5	2-Nitrophenol	ND	340	ug/kg	
100-02-7	4-Nitrophenol	ND	860	ug/kg	
87-86-5	Pentachlorophenol	ND	860	ug/kg	
108-95-2	Phenol	ND	340	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	340	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	340	ug/kg	
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	340	ug/kg	
50-32-8	Benzo(a)pyrene	ND	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	340	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	340	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	340	ug/kg	
91-58-7	2-Chloronaphthalene	ND	340	ug/kg	
106-47-8	4-Chloroaniline	ND	340	ug/kg	
86-74-8	Carbazole	ND	340	ug/kg	
218-01-9	Chrysene	ND	340	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	340	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	340	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	340	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	340	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	340	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	340	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	96.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	340	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	340	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	340	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	690	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	ug/kg	
132-64-9	Dibenzofuran	ND	340	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	340	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	340	ug/kg	
84-66-2	Diethyl phthalate	ND	340	ug/kg	
131-11-3	Dimethyl phthalate	ND	340	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	162	340	ug/kg	J
206-44-0	Fluoranthene	ND	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
118-74-1	Hexachlorobenzene	ND	340	ug/kg	
87-68-3	Hexachlorobutadiene	ND	340	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	ug/kg	
67-72-1	Hexachloroethane	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	ug/kg	
78-59-1	Isophorone	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	250	340	ug/kg	J
88-74-4	2-Nitroaniline	ND	340	ug/kg	
99-09-2	3-Nitroaniline	ND	340	ug/kg	
100-01-6	4-Nitroaniline	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
98-95-3	Nitrobenzene	ND	340	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	340	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	340	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		36-129%
4165-62-2	Phenol-d5	89%		38-135%
118-79-6	2,4,6-Tribromophenol	98%		37-144%
4165-60-0	Nitrobenzene-d5	126%		36-135%
321-60-8	2-Fluorobiphenyl	86%		44-135%
1718-51-0	Terphenyl-d14	89%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	96.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01318.D	40	02/22/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	1500	340	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
		Percent Solids:	96.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	95.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011045.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/kg	
71-43-2	Benzene	ND	250	ug/kg	
75-27-4	Bromodichloromethane	ND	250	ug/kg	
75-25-2	Bromoform	ND	250	ug/kg	
108-90-7	Chlorobenzene	ND	250	ug/kg	
75-00-3	Chloroethane	ND	250	ug/kg	
67-66-3	Chloroform	ND	250	ug/kg	
75-15-0	Carbon disulfide	ND	500	ug/kg	
56-23-5	Carbon tetrachloride	ND	250	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	250	ug/kg	
107-06-2	1,2-Dichloroethane	ND	250	ug/kg	
78-87-5	1,2-Dichloropropane	ND	250	ug/kg	
124-48-1	Dibromochloromethane	ND	250	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	250	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	250	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/kg	
100-41-4	Ethylbenzene	ND	250	ug/kg	
591-78-6	2-Hexanone	ND	500	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	500	ug/kg	
74-83-9	Methyl bromide	ND	250	ug/kg	
74-87-3	Methyl chloride	ND	250	ug/kg	
75-09-2	Methylene chloride	ND	500	ug/kg	
78-93-3	Methyl ethyl ketone	ND	500	ug/kg	
100-42-5	Styrene	ND	250	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/kg	
127-18-4	Tetrachloroethylene	ND	250	ug/kg	
108-88-3	Toluene	ND	250	ug/kg	
79-01-6	Trichloroethylene	ND	250	ug/kg	
75-01-4	Vinyl chloride	ND	250	ug/kg	
1330-20-7	Xylene (total)	436	750	ug/kg	J

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	95.3
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		71-122%
2037-26-5	Toluene-D8	96%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	85%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	95.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006608.D	4	02/21/01	ME	02/19/01	OP2747	SL394
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3500	ug/kg	
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	ug/kg	
95-48-7	2-Methylphenol	ND	1400	ug/kg	
	3&4-Methylphenol	ND	1400	ug/kg	
88-75-5	2-Nitrophenol	ND	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	3500	ug/kg	
87-86-5	Pentachlorophenol	ND	3500	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1400	ug/kg	
83-32-9	Acenaphthene	ND	1400	ug/kg	
208-96-8	Acenaphthylene	ND	1400	ug/kg	
120-12-7	Anthracene	ND	1400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
100-51-6	Benzyl Alcohol	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	1400	ug/kg	
86-74-8	Carbazole	ND	1400	ug/kg	
218-01-9	Chrysene	ND	1400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	95.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1400	ug/kg	
132-64-9	Dibenzofuran	ND	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	ND	1400	ug/kg	
86-73-7	Fluorene	ND	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1400	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	10200	1400	ug/kg	
88-74-4	2-Nitroaniline	ND	1400	ug/kg	
99-09-2	3-Nitroaniline	ND	1400	ug/kg	
100-01-6	4-Nitroaniline	ND	1400	ug/kg	
91-20-3	Naphthalene	3720	1400	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
85-01-8	Phenanthrene	ND	1400	ug/kg	
129-00-0	Pyrene	ND	1400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%		36-129%
4165-62-2	Phenol-d5	103%		38-135%
118-79-6	2,4,6-Tribromophenol	105%		37-144%
4165-60-0	Nitrobenzene-d5	106%		36-135%
321-60-8	2-Fluorobiphenyl	104%		44-135%
1718-51-0	Terphenyl-d14	99%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	95.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	95.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01319.D	50	02/22/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	2330	440	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
		Percent Solids:	95.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	97.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011046.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2400	ug/kg	
71-43-2	Benzene	ND	240	ug/kg	
75-27-4	Bromodichloromethane	ND	240	ug/kg	
75-25-2	Bromoform	ND	240	ug/kg	
108-90-7	Chlorobenzene	ND	240	ug/kg	
75-00-3	Chloroethane	ND	240	ug/kg	
67-66-3	Chloroform	ND	240	ug/kg	
75-15-0	Carbon disulfide	ND	480	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	ug/kg	
124-48-1	Dibromochloromethane	ND	240	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	240	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	ug/kg	
100-41-4	Ethylbenzene	ND	240	ug/kg	
591-78-6	2-Hexanone	ND	480	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	480	ug/kg	
74-83-9	Methyl bromide	ND	240	ug/kg	
74-87-3	Methyl chloride	ND	240	ug/kg	
75-09-2	Methylene chloride	ND	480	ug/kg	
78-93-3	Methyl ethyl ketone	ND	480	ug/kg	
100-42-5	Styrene	ND	240	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	ug/kg	
127-18-4	Tetrachloroethylene	ND	240	ug/kg	
108-88-3	Toluene	ND	240	ug/kg	
79-01-6	Trichloroethylene	ND	240	ug/kg	
75-01-4	Vinyl chloride	ND	240	ug/kg	
1330-20-7	Xylene (total)	ND	720	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	97.0
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		71-122%
2037-26-5	Toluene-D8	93%		73-128%
460-00-4	4-Bromofluorobenzene	103%		53-158%
17060-07-0	1,2-Dichloroethane-D4	84%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction perfomed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	97.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006610.D	4	02/21/01	ME	02/19/01	OP2747	SL394
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3400	ug/kg	
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3400	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	1400	ug/kg	
	3&4-Methylphenol	ND	1400	ug/kg	
88-75-5	2-Nitrophenol	ND	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	3400	ug/kg	
87-86-5	Pentachlorophenol	ND	3400	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1400	ug/kg	
83-32-9	Acenaphthene	ND	1400	ug/kg	
208-96-8	Acenaphthylene	ND	1400	ug/kg	
120-12-7	Anthracene	ND	1400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
100-51-6	Benzyl Alcohol	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	1400	ug/kg	
86-74-8	Carbazole	ND	1400	ug/kg	
218-01-9	Chrysene	ND	1400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	97.0
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1400	ug/kg	
132-64-9	Dibenzofuran	ND	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	ND	1400	ug/kg	
86-73-7	Fluorene	ND	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1400	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	5020	1400	ug/kg	
88-74-4	2-Nitroaniline	ND	1400	ug/kg	
99-09-2	3-Nitroaniline	ND	1400	ug/kg	
100-01-6	4-Nitroaniline	ND	1400	ug/kg	
91-20-3	Naphthalene	1230	1400	ug/kg	J
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
85-01-8	Phenanthrene	ND	1400	ug/kg	
129-00-0	Pyrene	ND	1400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		36-129%
4165-62-2	Phenol-d5	91%		38-135%
118-79-6	2,4,6-Tribromophenol	95%		37-144%
4165-60-0	Nitrobenzene-d5	88%		36-135%
321-60-8	2-Fluorobiphenyl	95%		44-135%
1718-51-0	Terphenyl-d14	100%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	97.0
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found *in associated method blank*
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	97.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01320.D	20	02/22/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	890	170	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
		Percent Solids:	97.0
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.11 U	9.8	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	88.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011047.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2700	ug/kg	
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
75-15-0	Carbon disulfide	ND	530	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	490	270	ug/kg	
591-78-6	2-Hexanone	ND	530	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	530	ug/kg	
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	530	ug/kg	
78-93-3	Methyl ethyl ketone	ND	530	ug/kg	
100-42-5	Styrene	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	4810	800	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	88.3
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	84%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	88.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006612.D	20	02/21/01	ME	02/19/01	OP2747	SL394
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	19000	ug/kg	
95-57-8	2-Chlorophenol	ND	7500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	7500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	7500	ug/kg	
105-67-9	2,4-Dimethylphenol	*ND*	*19000*	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	19000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	15000	ug/kg	
95-48-7	2-Methylphenol	ND	7500	ug/kg	
	3&4-Methylphenol	ND	7500	ug/kg	
88-75-5	2-Nitrophenol	ND	7500	ug/kg	
100-02-7	4-Nitrophenol	ND	19000	ug/kg	
87-86-5	Pentachlorophenol	ND	19000	ug/kg	
108-95-2	Phenol	ND	7500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	7500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	7500	ug/kg	
83-32-9	Acenaphthene	ND	7500	ug/kg	
208-96-8	Acenaphthylene	ND	7500	ug/kg	
120-12-7	Anthracene	ND	7500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	7500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	7500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	7500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	7500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	7500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	7500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	7500	ug/kg	
100-51-6	Benzyl Alcohol	ND	7500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	7500	ug/kg	
106-47-8	4-Chloroaniline	ND	7500	ug/kg	
86-74-8	Carbazole	ND	7500	ug/kg	
218-01-9	Chrysene	ND	7500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	7500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	7500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	7500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	7500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	88.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	7500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	7500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	7500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	15000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	7500	ug/kg	
132-64-9	Dibenzofuran	ND	7500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	7500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	7500	ug/kg	
84-66-2	Diethyl phthalate	ND	7500	ug/kg	
131-11-3	Dimethyl phthalate	ND	7500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	7500	ug/kg	
206-44-0	Fluoranthene	ND	7500	ug/kg	
86-73-7	Fluorene	ND	7500	ug/kg	
118-74-1	Hexachlorobenzene	ND	7500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	7500	ug/kg	
67-72-1	Hexachloroethane	ND	7500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	7500	ug/kg	
78-59-1	Isophorone	ND	7500	ug/kg	
91-57-6	2-Methylnaphthalene	39800	7500	ug/kg	
88-74-4	2-Nitroaniline	ND	7500	ug/kg	
99-09-2	3-Nitroaniline	ND	7500	ug/kg	
100-01-6	4-Nitroaniline	ND	7500	ug/kg	
91-20-3	Naphthalene	16300	7500	ug/kg	
98-95-3	Nitrobenzene	ND	7500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	7500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	7500	ug/kg	
85-01-8	Phenanthrene	ND	7500	ug/kg	
129-00-0	Pyrene	ND	7500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		36-129%
4165-62-2	Phenol-d5	90%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	106%		36-135%
321-60-8	2-Fluorobiphenyl	95%		44-135%
1718-51-0	Terphenyl-d14	90%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	88.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	88.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01291.D	100	02/21/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	3300	940	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	Date Sampled:	02/08/01
Matrix:	SO - Solid	Date Received:	02/12/01
		Percent Solids:	88.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	11.2	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	Date Sampled:	02/09/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	85.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011042.D	1	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	58	ug/kg	
71-43-2	Benzene	ND	5.8	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	Date Sampled:	02/09/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8260B	Percent Solids:	85.2
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	103%		53-158%
17060-07-0	1,2-Dichloroethane-D4	75%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	Date Sampled:	02/09/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	85.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006592.D	1	02/20/01	ME	02/19/01	OP2747	SL393
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	980	ug/kg	
95-57-8	2-Chlorophenol	ND	390	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	390	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	390	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	980	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	780	ug/kg	
95-48-7	2-Methylphenol	ND	390	ug/kg	
	3&4-Methylphenol	ND	390	ug/kg	
88-75-5	2-Nitrophenol	ND	390	ug/kg	
100-02-7	4-Nitrophenol	ND	980	ug/kg	
87-86-5	Pentachlorophenol	ND	980	ug/kg	
108-95-2	Phenol	ND	390	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	390	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	390	ug/kg	
83-32-9	Acenaphthene	ND	390	ug/kg	
208-96-8	Acenaphthylene	ND	390	ug/kg	
120-12-7	Anthracene	ND	390	ug/kg	
56-55-3	Benzo(a)anthracene	ND	390	ug/kg	
50-32-8	Benzo(a)pyrene	ND	390	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	390	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	390	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	390	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	ug/kg	
100-51-6	Benzyl Alcohol	ND	390	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	ug/kg	
106-47-8	4-Chloroaniline	ND	390	ug/kg	
86-74-8	Carbazole	ND	390	ug/kg	
218-01-9	Chrysene	ND	390	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	390	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	390	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	Date Sampled:	02/09/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	85.2
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	390	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	780	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	390	ug/kg	
132-64-9	Dibenzofuran	ND	390	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	ug/kg	
84-66-2	Diethyl phthalate	ND	390	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	132	390	ug/kg	J
206-44-0	Fluoranthene	ND	390	ug/kg	
86-73-7	Fluorene	ND	390	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	ug/kg	
67-72-1	Hexachloroethane	ND	390	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	390	ug/kg	
78-59-1	Isophorone	ND	390	ug/kg	
91-57-6	2-Methylnaphthalene	ND	390	ug/kg	
88-74-4	2-Nitroaniline	ND	390	ug/kg	
99-09-2	3-Nitroaniline	ND	390	ug/kg	
100-01-6	4-Nitroaniline	ND	390	ug/kg	
91-20-3	Naphthalene	ND	390	ug/kg	
98-95-3	Nitrobenzene	ND	390	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	390	ug/kg	
85-01-8	Phenanthrene	ND	390	ug/kg	
129-00-0	Pyrene	ND	390	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	390	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	93%		37-144%
4165-60-0	Nitrobenzene-d5	74%		36-135%
321-60-8	2-Fluorobiphenyl	80%		44-135%
1718-51-0	Terphenyl-d14	92%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	Date Sampled:	02/09/01
Matrix:	SO - Solid	Date Received:	02/12/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	85.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01292.D	1	02/21/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	27.7	9.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	Date Sampled:	02/09/01
Matrix:	SO - Solid	Date Received:	02/12/01
		Percent Solids:	85.2
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	11.5	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

SECTION 2

CASE NARRATIVE
GC/MS Volatile Analysis

Laboratory Reference No. F8944

Client/Project: AMEC/CTO 229/ 1-1019-0229

I. **RECEIPT**
The samples were received via DHL Worldwide Express on Feb 12, 2001.

II. **HOLDING TIMES**
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. **METHOD**
Preparation: SW-846 5035/5030
Analysis: SW-846 8260B

IV. **PREPARATION**
Samples were prepared as received. Soil samples were received with EnCore samples and were therefore Prepared using method 5035.

V. **ANALYSIS**
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Samples: Sample F8944-2, F8944-3, F8944-4,F8944-5,F8944-6 required a dilution due to a matrix interference (non-target analytes were present above the calibration range).

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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.

Signed: _____ Date: 3/1/01
Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F8944

Client/Project: AMEC/CTO 229/ 1-1019-0229

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 12, 2001.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3550B

Analysis: SW-846 8270C

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): MSD recovery and RPD for a number of samples were outside of control limit, QC sample was diluted due to matrix interference, sample was viscous.

D. Samples: Sample F8944-2 was diluted due to matrix interference, therefore there was no surrogate recovery for this sample. Sample F8944-4, F8944-5, F8944-6, was diluted due to matrix interference.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 3/1/1

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F8944

Client/Project: AMEC/CTO 229/ 1-1019-0229

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 12, 2001.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3550B

Analysis: SW-846 8015 M

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): MS/MSD/RPD outside control limit due to high level in sample relative to spike amount.

D. Samples: Sample F8944-2,F8944-3,F8944-4,F8944-6, was diluted therefore surrogate was outside of control limit.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 3/1/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8944

Client/Project: AMEC/CTO 229/ 1-1019-0229

I. **RECEIPT**
The samples were received via DHL Worldwide Express on Feb 12, 2001.

II. **HOLDING TIMES**
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. **METHOD**
Preparation: SW-846 3050B
Analysis: SW-846 6010B (Lead Only)

IV. **PREPARATION**
Sample preparation proceeded normally.

V. **ANALYSIS**
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Duplicates: All acceptance criteria were met.
E. Serial Dilutions: The serial dilution was found to be slightly high, but acceptable due to low initial sample concentration (< 50 times the IDL).
F. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 3/1/01

Harry Behzadi, Ph.D.
Laboratory Director

Internal Sample Tracking Chronicle

Ogden Environmental

Job No: F8944

CTO 229
Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F8944-1 Collected: 08-FEB-01 00:00 By: JLD Received: 12-FEB-01 By: SMG TRIP BLANK						
F8944-1	SW846 8260B	16-FEB-01 16:59	JG			V8260TCL
F8944-2 Collected: 07-FEB-01 14:30 By: JLD Received: 12-FEB-01 By: SMG RH-BR-1-S01						
F8944-2	SW846 6010B	15-FEB-01 14:05	JK	14-FEB-01	LIR	PB
F8944-2	EPA 160.3 M	16-FEB-01	LIR			%SOL
F8944-2	SW846 8260B	19-FEB-01 13:39	NAF			V8260TCL
F8944-2	SW846 8270C	20-FEB-01 10:36	ME	19-FEB-01	NJ	AB8270TCL
F8944-2	SW846 8015 M	21-FEB-01 10:40	SKW	19-FEB-01	NJ	B8015DROM1
F8944-3 Collected: 08-FEB-01 08:27 By: JLD Received: 12-FEB-01 By: SMG RH-BR-1-S02						
F8944-3	EPA 160.3 M	16-FEB-01	LIR			%SOL
F8944-3	SW846 8260B	19-FEB-01 14:19	NAF			V8260TCL
F8944-3	SW846 8270C	20-FEB-01 11:08	ME	19-FEB-01	NJ	AB8270TCL
F8944-3	SW846 6010B	20-FEB-01 13:49	JK	19-FEB-01	LIR	PB
F8944-3	SW846 8015 M	22-FEB-01 00:06	SKW	19-FEB-01	NJ	B8015DROM1
F8944-4 Collected: 08-FEB-01 13:39 By: JLD Received: 12-FEB-01 By: SMG RH-BR-1-S03						
F8944-4	EPA 160.3 M	16-FEB-01	LIR			%SOL
F8944-4	SW846 8260B	19-FEB-01 15:23	NAF			V8260TCL
F8944-4	SW846 6010B	20-FEB-01 13:55	JK	19-FEB-01	LIR	PB
F8944-4	SW846 8270C	21-FEB-01 15:12	ME	19-FEB-01	NJ	AB8270TCL
F8944-4	SW846 8015 M	22-FEB-01 00:30	SKW	19-FEB-01	NJ	B8015DROM1
F8944-5 Collected: 08-FEB-01 13:39 By: JLD Received: 12-FEB-01 By: SMG RH-BR-1-D09						
F8944-5	EPA 160.3 M	16-FEB-01	LIR			%SOL
F8944-5	SW846 8260B	19-FEB-01 16:03	NAF			V8260TCL
F8944-5	SW846 6010B	20-FEB-01 14:00	JK	19-FEB-01	LIR	PB
F8944-5	SW846 8270C	21-FEB-01 16:17	ME	19-FEB-01	NJ	AB8270TCL
F8944-5	SW846 8015 M	22-FEB-01 00:55	SKW	19-FEB-01	NJ	B8015DROM1

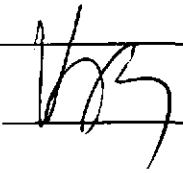
Internal Sample Tracking Chronicle

Ogden Environmental

Job No: F8944

CTO 229
Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F8944-6 Collected: 08-FEB-01 13:52 By: JLD Received: 12-FEB-01 By: SMG RH-BR-1-S04						
F8944-6	EPA 160.3 M	16-FEB-01	LIR			%SOL
F8944-6	SW846 8260B	19-FEB-01 16:43	NAF			V8260TCL
F8944-6	SW846 6010B	20-FEB-01 14:05	JK	19-FEB-01	LIR	PB
F8944-6	SW846 8015 M	21-FEB-01 13:07	SKW	19-FEB-01	NJ	B8015DROM1
F8944-6	SW846 8270C	21-FEB-01 17:22	ME	19-FEB-01	NJ	AB8270TCL
F8944-7 Collected: 09-FEB-01 09:27 By: JLD Received: 12-FEB-01 By: SMG RH-BR-1-S05						
F8944-7	EPA 160.3 M	16-FEB-01	LIR			%SOL
F8944-7	SW846 8260B	19-FEB-01 13:01	NAF			V8260TCL
F8944-7	SW846 8270C	20-FEB-01 13:19	ME	19-FEB-01	NJ	AB8270TCL
F8944-7	SW846 6010B	20-FEB-01 14:11	JK	19-FEB-01	LIR	PB
F8944-7	SW846 8015 M	21-FEB-01 13:31	SKW	19-FEB-01	NJ	B8015DROM1

QA Signature 

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F8944

Client/Project: AMEC

Date/Time Received: ~~2/10~~ 2/12/01 1150

Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery (Other)

Air Bill Number: DHL 8103264470

Cooler Temperatures: 2.8

Custody Seals Intact?	(YES)	NO
Chain Of Custody Provided?	(YES)	NO
Chain Of Custody Match Bottles?	(YES)	NO
Sample Labels Present?	(YES)	NO
Are All Bottles Unbroken?	YES	(NO)
Proper Preservative?	(YES)	NO
Correct Containers Used?	(YES)	NO
Sufficient Sample Volume?	(YES)	NO

Number of Encores: —

COMMENTS:

RH-BC-1-D09 - 1 jar received broken (w/ 1" diameter hole in side of jar) - transferred core to another jar - have 2 other jars of rock

Signature: [signature] **Date:** 2/12/01

0007

SECTION 3

TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

SECTION 4

ACCUTEST.

Sample Summary

Ogden Environmental

Job No: F8944

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8944-1	02/08/01	00:00	JLD	02/12/01	AQ	Trip Blank Soil	TRIP BLANK
F8944-2	02/07/01	14:30	JLD	02/12/01	SO	Solid	RH-BR-1-S01
F8944-3	02/08/01	08:27	JLD	02/12/01	SO	Solid	RH-BR-1-S02
F8944-4	02/08/01	13:39	JLD	02/12/01	SO	Solid	RH-BR-1-S03
F8944-5	02/08/01	13:39	JLD	02/12/01	SO	Solid	RH-BR-1-D09
F8944-6	02/08/01	13:52	JLD	02/12/01	SO	Solid	RH-BR-1-S04
F8944-7	02/09/01	09:27	JLD	02/12/01	SO	Solid	RH-BR-1-S05

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8944-1	**Date Sampled:**	02/08/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B004017.D	1	02/16/01	JG	n/a	n/a	VB154
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8944-1	**Date Sampled:**	02/08/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	72.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011043.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	3400	ug/kg	
71-43-2	Benzene	ND	340	ug/kg	
75-27-4	Bromodichloromethane	ND	340	ug/kg	
75-25-2	Bromoform	ND	340	ug/kg	
108-90-7	Chlorobenzene	ND	340	ug/kg	
75-00-3	Chloroethane	ND	340	ug/kg	
67-66-3	Chloroform	ND	340	ug/kg	
75-15-0	Carbon disulfide	ND	680	ug/kg	
56-23-5	Carbon tetrachloride	ND	340	ug/kg	
75-34-3	1,1-Dichloroethane	ND	340	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	340	ug/kg	
107-06-2	1,2-Dichloroethane	ND	340	ug/kg	
78-87-5	1,2-Dichloropropane	ND	340	ug/kg	
124-48-1	Dibromochloromethane	ND	340	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	340	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	340	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	340	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	340	ug/kg	
100-41-4	Ethylbenzene	ND	340	ug/kg	
591-78-6	2-Hexanone	ND	680	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	680	ug/kg	
74-83-9	Methyl bromide	ND	340	ug/kg	
74-87-3	Methyl chloride	ND	340	ug/kg	
75-09-2	Methylene chloride	ND	680	ug/kg	
78-93-3	Methyl ethyl ketone	ND	680	ug/kg	
100-42-5	Styrene	ND	340	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	340	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	340	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	340	ug/kg	
127-18-4	Tetrachloroethylene	ND	340	ug/kg	
108-88-3	Toluene	ND	340	ug/kg	
79-01-6	Trichloroethylene	ND	340	ug/kg	
75-01-4	Vinyl chloride	ND	340	ug/kg	
1330-20-7	Xylene (total)	ND	1000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	72.9
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		71-122%
2037-26-5	Toluene-D8	95%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	86%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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ACCUTEST

Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	72.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006587.D	40	02/20/01	ME	02/19/01	OP2747	SL393
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	46000	ug/kg	
95-57-8	2-Chlorophenol	ND	18000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	18000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	18000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	46000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	46000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	37000	ug/kg	
95-48-7	2-Methylphenol	ND	18000	ug/kg	
	3&4-Methylphenol	ND	18000	ug/kg	
88-75-5	2-Nitrophenol	ND	18000	ug/kg	
100-02-7	4-Nitrophenol	ND	46000	ug/kg	
87-86-5	Pentachlorophenol	ND	46000	ug/kg	
108-95-2	Phenol	ND	18000	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	18000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	18000	ug/kg	
83-32-9	Acenaphthene	ND	18000	ug/kg	
208-96-8	Acenaphthylene	ND	18000	ug/kg	
120-12-7	Anthracene	ND	18000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	18000	ug/kg	
50-32-8	Benzo(a)pyrene	ND	18000	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	18000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	18000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	18000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	18000	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	18000	ug/kg	
100-51-6	Benzyl Alcohol	ND	18000	ug/kg	
91-58-7	2-Chloronaphthalene	ND	18000	ug/kg	
106-47-8	4-Chloroaniline	ND	18000	ug/kg	
86-74-8	Carbazole	ND	18000	ug/kg	
218-01-9	Chrysene	ND	18000	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	18000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	18000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	18000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	18000	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	18000	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	18000	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	72.9
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	18000	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	18000	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	18000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	37000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	18000	ug/kg	
132-64-9	Dibenzofuran	ND	18000	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	18000	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	18000	ug/kg	
84-66-2	Diethyl phthalate	ND	18000	ug/kg	
131-11-3	Dimethyl phthalate	ND	18000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	18000	ug/kg	
206-44-0	Fluoranthene	ND	18000	ug/kg	
86-73-7	Fluorene	ND	18000	ug/kg	
118-74-1	Hexachlorobenzene	ND	18000	ug/kg	
87-68-3	Hexachlorobutadiene	ND	18000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	18000	ug/kg	
67-72-1	Hexachloroethane	ND	18000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	18000	ug/kg	
78-59-1	Isophorone	ND	18000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	18000	ug/kg	
88-74-4	2-Nitroaniline	ND	18000	ug/kg	
99-09-2	3-Nitroaniline	ND	18000	ug/kg	
100-01-6	4-Nitroaniline	ND	18000	ug/kg	
91-20-3	Naphthalene	ND	18000	ug/kg	
98-95-3	Nitrobenzene	ND	18000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	18000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	18000	ug/kg	
85-01-8	Phenanthrene	ND	18000	ug/kg	
129-00-0	Pyrene	ND	18000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	18000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		36-129%
4165-62-2	Phenol-d5	0% [b]		38-135%
118-79-6	2,4,6-Tribromophenol	0% [b]		37-144%
4165-60-0	Nitrobenzene-d5	0% [b]		36-135%
321-60-8	2-Fluorobiphenyl	0% [b]		44-135%
1718-51-0	Terphenyl-d14	0% [b]		42-149%

ND = Not detected
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	72.9
Project:	CTO 229		

ABN TCL List

CAS No.	*Compound*	Result	RL	Units	Q

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	72.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01285.D	1000	02/21/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	25300	11000	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S01		
Lab Sample ID:	F8944-2	**Date Sampled:**	02/07/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
		Percent Solids:	72.9
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	293	13.4	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	96.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011044.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2600	ug/kg	
71-43-2	Benzene	ND	260	ug/kg	
75-27-4	Bromodichloromethane	ND	260	ug/kg	
75-25-2	Bromoform	ND	260	ug/kg	
108-90-7	Chlorobenzene	ND	260	ug/kg	
75-00-3	Chloroethane	ND	260	ug/kg	
67-66-3	Chloroform	ND	260	ug/kg	
75-15-0	Carbon disulfide	ND	520	ug/kg	
56-23-5	Carbon tetrachloride	ND	260	ug/kg	
75-34-3	1,1-Dichloroethane	ND	260	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	260	ug/kg	
107-06-2	1,2-Dichloroethane	ND	260	ug/kg	
78-87-5	1,2-Dichloropropane	ND	260	ug/kg	
124-48-1	Dibromochloromethane	ND	260	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	260	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	260	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	260	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	260	ug/kg	
100-41-4	Ethylbenzene	ND	260	ug/kg	
591-78-6	2-Hexanone	ND	520	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	520	ug/kg	
74-83-9	Methyl bromide	ND	260	ug/kg	
74-87-3	Methyl chloride	ND	260	ug/kg	
75-09-2	Methylene chloride	ND	520	ug/kg	
78-93-3	Methyl ethyl ketone	ND	520	ug/kg	
100-42-5	Styrene	ND	260	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	260	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	260	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	260	ug/kg	
127-18-4	Tetrachloroethylene	ND	260	ug/kg	
108-88-3	Toluene	ND	260	ug/kg	
79-01-6	Trichloroethylene	ND	260	ug/kg	
75-01-4	Vinyl chloride	ND	260	ug/kg	
1330-20-7	Xylene (total)	ND	790	ug/kg	

ND = Not detected
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	96.4
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	86%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	96.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006588.D	1	02/20/01	ME	02/19/01	OP2747	SL393
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	860	ug/kg	
95-57-8	2-Chlorophenol	ND	340	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	340	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	340	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	860	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	860	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	ug/kg	
95-48-7	2-Methylphenol	ND	340	ug/kg	
	3&4-Methylphenol	ND	340	ug/kg	
88-75-5	2-Nitrophenol	ND	340	ug/kg	
100-02-7	4-Nitrophenol	ND	860	ug/kg	
87-86-5	Pentachlorophenol	ND	860	ug/kg	
108-95-2	Phenol	ND	340	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	340	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	340	ug/kg	
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	340	ug/kg	
50-32-8	Benzo(a)pyrene	ND	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	340	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	340	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	340	ug/kg	
91-58-7	2-Chloronaphthalene	ND	340	ug/kg	
106-47-8	4-Chloroaniline	ND	340	ug/kg	
86-74-8	Carbazole	ND	340	ug/kg	
218-01-9	Chrysene	ND	340	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	340	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	340	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	340	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	340	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	340	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	340	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	96.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	340	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	340	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	340	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	690	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	ug/kg	
132-64-9	Dibenzofuran	ND	340	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	340	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	340	ug/kg	
84-66-2	Diethyl phthalate	ND	340	ug/kg	
131-11-3	Dimethyl phthalate	ND	340	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	162	340	ug/kg	J
206-44-0	Fluoranthene	ND	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
118-74-1	Hexachlorobenzene	ND	340	ug/kg	
87-68-3	Hexachlorobutadiene	ND	340	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	ug/kg	
67-72-1	Hexachloroethane	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	ug/kg	
78-59-1	Isophorone	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	250	340	ug/kg	J
88-74-4	2-Nitroaniline	ND	340	ug/kg	
99-09-2	3-Nitroaniline	ND	340	ug/kg	
100-01-6	4-Nitroaniline	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
98-95-3	Nitrobenzene	ND	340	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	340	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	340	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		36-129%
4165-62-2	Phenol-d5	89%		38-135%
118-79-6	2,4,6-Tribromophenol	98%		37-144%
4165-60-0	Nitrobenzene-d5	126%		36-135%
321-60-8	2-Fluorobiphenyl	86%		44-135%
1718-51-0	Terphenyl-d14	89%		42-149%

ND = Not detected
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	96.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01318.D	40	02/22/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	1500	340	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-1-S02		
Lab Sample ID:	F8944-3	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
		Percent Solids:	96.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	95.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011045.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/kg	
71-43-2	Benzene	ND	250	ug/kg	
75-27-4	Bromodichloromethane	ND	250	ug/kg	
75-25-2	Bromoform	ND	250	ug/kg	
108-90-7	Chlorobenzene	ND	250	ug/kg	
75-00-3	Chloroethane	ND	250	ug/kg	
67-66-3	Chloroform	ND	250	ug/kg	
75-15-0	Carbon disulfide	ND	500	ug/kg	
56-23-5	Carbon tetrachloride	ND	250	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	250	ug/kg	
107-06-2	1,2-Dichloroethane	ND	250	ug/kg	
78-87-5	1,2-Dichloropropane	ND	250	ug/kg	
124-48-1	Dibromochloromethane	ND	250	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	250	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	250	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/kg	
100-41-4	Ethylbenzene	ND	250	ug/kg	
591-78-6	2-Hexanone	ND	500	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	500	ug/kg	
74-83-9	Methyl bromide	ND	250	ug/kg	
74-87-3	Methyl chloride	ND	250	ug/kg	
75-09-2	Methylene chloride	ND	500	ug/kg	
78-93-3	Methyl ethyl ketone	ND	500	ug/kg	
100-42-5	Styrene	ND	250	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/kg	
127-18-4	Tetrachloroethylene	ND	250	ug/kg	
108-88-3	Toluene	ND	250	ug/kg	
79-01-6	Trichloroethylene	ND	250	ug/kg	
75-01-4	Vinyl chloride	ND	250	ug/kg	
1330-20-7	Xylene (total)	436	750	ug/kg	J

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	95.3
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		71-122%
2037-26-5	Toluene-D8	96%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	85%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006608.D	4	02/21/01	ME	02/19/01	OP2747	SL394
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3500	ug/kg	
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3500	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2800	ug/kg	
95-48-7	2-Methylphenol	ND	1400	ug/kg	
	3&4-Methylphenol	ND	1400	ug/kg	
88-75-5	2-Nitrophenol	ND	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	3500	ug/kg	
87-86-5	Pentachlorophenol	ND	3500	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1400	ug/kg	
83-32-9	Acenaphthene	ND	1400	ug/kg	
208-96-8	Acenaphthylene	ND	1400	ug/kg	
120-12-7	Anthracene	ND	1400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
100-51-6	Benzyl Alcohol	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	1400	ug/kg	
86-74-8	Carbazole	ND	1400	ug/kg	
218-01-9	Chrysene	ND	1400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2800	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1400	ug/kg	
132-64-9	Dibenzofuran	ND	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	ND	1400	ug/kg	
86-73-7	Fluorene	ND	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1400	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	10200	1400	ug/kg	
88-74-4	2-Nitroaniline	ND	1400	ug/kg	
99-09-2	3-Nitroaniline	ND	1400	ug/kg	
100-01-6	4-Nitroaniline	ND	1400	ug/kg	
91-20-3	Naphthalene	3720	1400	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
85-01-8	Phenanthrene	ND	1400	ug/kg	
129-00-0	Pyrene	ND	1400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%		36-129%
4165-62-2	Phenol-d5	103%		38-135%
118-79-6	2,4,6-Tribromophenol	105%		37-144%
4165-60-0	Nitrobenzene-d5	106%		36-135%
321-60-8	2-Fluorobiphenyl	104%		44-135%
1718-51-0	Terphenyl-d14	99%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	95.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	95.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01319.D	50	02/22/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	2330	440	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S03		
Lab Sample ID:	F8944-4	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
		Percent Solids:	95.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011046.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2400	ug/kg	
71-43-2	Benzene	ND	240	ug/kg	
75-27-4	Bromodichloromethane	ND	240	ug/kg	
75-25-2	Bromoform	ND	240	ug/kg	
108-90-7	Chlorobenzene	ND	240	ug/kg	
75-00-3	Chloroethane	ND	240	ug/kg	
67-66-3	Chloroform	ND	240	ug/kg	
75-15-0	Carbon disulfide	ND	480	ug/kg	
56-23-5	Carbon tetrachloride	ND	240	ug/kg	
75-34-3	1,1-Dichloroethane	ND	240	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	240	ug/kg	
107-06-2	1,2-Dichloroethane	ND	240	ug/kg	
78-87-5	1,2-Dichloropropane	ND	240	ug/kg	
124-48-1	Dibromochloromethane	ND	240	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	240	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	240	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	240	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	240	ug/kg	
100-41-4	Ethylbenzene	ND	240	ug/kg	
591-78-6	2-Hexanone	ND	480	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	480	ug/kg	
74-83-9	Methyl bromide	ND	240	ug/kg	
74-87-3	Methyl chloride	ND	240	ug/kg	
75-09-2	Methylene chloride	ND	480	ug/kg	
78-93-3	Methyl ethyl ketone	ND	480	ug/kg	
100-42-5	Styrene	ND	240	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	240	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	240	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	240	ug/kg	
127-18-4	Tetrachloroethylene	ND	240	ug/kg	
108-88-3	Toluene	ND	240	ug/kg	
79-01-6	Trichloroethylene	ND	240	ug/kg	
75-01-4	Vinyl chloride	ND	240	ug/kg	
1330-20-7	Xylene (total)	ND	720	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	97.0
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		71-122%
2037-26-5	Toluene-D8	93%		73-128%
460-00-4	4-Bromofluorobenzene	103%		53-158%
17060-07-0	1,2-Dichloroethane-D4	84%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction perfomed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006610.D	4	02/21/01	ME	02/19/01	OP2747	SL394
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3400	ug/kg	
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3400	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2700	ug/kg	
95-48-7	2-Methylphenol	ND	1400	ug/kg	
	3&4-Methylphenol	ND	1400	ug/kg	
88-75-5	2-Nitrophenol	ND	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	3400	ug/kg	
87-86-5	Pentachlorophenol	ND	3400	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1400	ug/kg	
83-32-9	Acenaphthene	ND	1400	ug/kg	
208-96-8	Acenaphthylene	ND	1400	ug/kg	
120-12-7	Anthracene	ND	1400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
100-51-6	Benzyl Alcohol	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	1400	ug/kg	
86-74-8	Carbazole	ND	1400	ug/kg	
218-01-9	Chrysene	ND	1400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1400	ug/kg	
132-64-9	Dibenzofuran	ND	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	ND	1400	ug/kg	
86-73-7	Fluorene	ND	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1400	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	5020	1400	ug/kg	
88-74-4	2-Nitroaniline	ND	1400	ug/kg	
99-09-2	3-Nitroaniline	ND	1400	ug/kg	
100-01-6	4-Nitroaniline	ND	1400	ug/kg	
91-20-3	Naphthalene	1230	1400	ug/kg	J
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
85-01-8	Phenanthrene	ND	1400	ug/kg	
129-00-0	Pyrene	ND	1400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		36-129%
4165-62-2	Phenol-d5	91%		38-135%
118-79-6	2,4,6-Tribromophenol	95%		37-144%
4165-60-0	Nitrobenzene-d5	88%		36-135%
321-60-8	2-Fluorobiphenyl	95%		44-135%
1718-51-0	Terphenyl-d14	100%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.0
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	97.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01320.D	20	02/22/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	890	170	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-D09		
Lab Sample ID:	F8944-5	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
		Percent Solids:	97.0
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.11 U	9.8	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	88.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011047.D	50	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2700	ug/kg	
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
75-15-0	Carbon disulfide	ND	530	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	490	270	ug/kg	
591-78-6	2-Hexanone	ND	530	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	530	ug/kg	
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	530	ug/kg	
78-93-3	Methyl ethyl ketone	ND	530	ug/kg	
100-42-5	Styrene	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	4810	800	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	88.3
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	84%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	88.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006612.D	20	02/21/01	ME	02/19/01	OP2747	SL394
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	19000	ug/kg	
95-57-8	2-Chlorophenol	ND	7500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	7500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	7500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	19000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	19000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	15000	ug/kg	
95-48-7	2-Methylphenol	ND	7500	ug/kg	
	3&4-Methylphenol	ND	7500	ug/kg	
88-75-5	2-Nitrophenol	ND	7500	ug/kg	
100-02-7	4-Nitrophenol	ND	19000	ug/kg	
87-86-5	Pentachlorophenol	ND	19000	ug/kg	
108-95-2	Phenol	ND	7500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	7500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	7500	ug/kg	
83-32-9	Acenaphthene	ND	7500	ug/kg	
208-96-8	Acenaphthylene	ND	7500	ug/kg	
120-12-7	Anthracene	ND	7500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	7500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	7500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	7500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	7500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	7500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	7500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	7500	ug/kg	
100-51-6	Benzyl Alcohol	ND	7500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	7500	ug/kg	
106-47-8	4-Chloroaniline	ND	7500	ug/kg	
86-74-8	Carbazole	ND	7500	ug/kg	
218-01-9	Chrysene	ND	7500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	7500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	7500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	7500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	7500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	7500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	7500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	88.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	7500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	7500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	7500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	15000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	7500	ug/kg	
132-64-9	Dibenzofuran	ND	7500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	7500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	7500	ug/kg	
84-66-2	Diethyl phthalate	ND	7500	ug/kg	
131-11-3	Dimethyl phthalate	ND	7500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	7500	ug/kg	
206-44-0	Fluoranthene	ND	7500	ug/kg	
86-73-7	Fluorene	ND	7500	ug/kg	
118-74-1	Hexachlorobenzene	ND	7500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	7500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	7500	ug/kg	
67-72-1	Hexachloroethane	ND	7500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	7500	ug/kg	
78-59-1	Isophorone	ND	7500	ug/kg	
91-57-6	2-Methylnaphthalene	39800	7500	ug/kg	
88-74-4	2-Nitroaniline	ND	7500	ug/kg	
99-09-2	3-Nitroaniline	ND	7500	ug/kg	
100-01-6	4-Nitroaniline	ND	7500	ug/kg	
91-20-3	Naphthalene	16300	7500	ug/kg	
98-95-3	Nitrobenzene	ND	7500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	7500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	7500	ug/kg	
85-01-8	Phenanthrene	ND	7500	ug/kg	
129-00-0	Pyrene	ND	7500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		36-129%
4165-62-2	Phenol-d5	90%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	106%		36-135%
321-60-8	2-Fluorobiphenyl	95%		44-135%
1718-51-0	Terphenyl-d14	90%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	88.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	88.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01291.D	100	02/21/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	3300	940	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S04		
Lab Sample ID:	F8944-6	**Date Sampled:**	02/08/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
		Percent Solids:	88.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	11.2	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	**Date Sampled:**	02/09/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	*SW846 8260B*	**Percent Solids:**	85.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H011042.D	1	02/19/01	NAF	n/a	n/a	VH279
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	58	ug/kg	
71-43-2	Benzene	ND	5.8	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	ug/kg	
75-25-2	Bromoform	ND	5.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	5.8	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
100-42-5	Styrene	ND	5.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.8	ug/kg	
108-88-3	Toluene	ND	5.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.8	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	**Date Sampled:**	02/09/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8260B	**Percent Solids:**	85.2
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	103%		53-158%
17060-07-0	1,2-Dichloroethane-D4	75%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	**Date Sampled:**	02/09/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006592.D	1	02/20/01	ME	02/19/01	OP2747	SL393
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	980	ug/kg	
95-57-8	2-Chlorophenol	ND	390	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	390	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	390	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	980	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	780	ug/kg	
95-48-7	2-Methylphenol	ND	390	ug/kg	
	3&4-Methylphenol	ND	390	ug/kg	
88-75-5	2-Nitrophenol	ND	390	ug/kg	
100-02-7	4-Nitrophenol	ND	980	ug/kg	
87-86-5	Pentachlorophenol	ND	980	ug/kg	
108-95-2	Phenol	ND	390	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	390	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	390	ug/kg	
83-32-9	Acenaphthene	ND	390	ug/kg	
208-96-8	Acenaphthylene	ND	390	ug/kg	
120-12-7	Anthracene	ND	390	ug/kg	
56-55-3	Benzo(a)anthracene	ND	390	ug/kg	
50-32-8	Benzo(a)pyrene	ND	390	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	390	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	390	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	390	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	390	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	ug/kg	
100-51-6	Benzyl Alcohol	ND	390	ug/kg	
91-58-7	2-Chloronaphthalene	ND	390	ug/kg	
106-47-8	4-Chloroaniline	ND	390	ug/kg	
86-74-8	Carbazole	ND	390	ug/kg	
218-01-9	Chrysene	ND	390	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	390	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	390	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	390	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	390	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	390	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	390	ug/kg	

ND = Not detected
RL = Reporting Limit
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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	**Date Sampled:**	02/09/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.2
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	390	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	390	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	390	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	780	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	390	ug/kg	
132-64-9	Dibenzofuran	ND	390	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	ug/kg	
84-66-2	Diethyl phthalate	ND	390	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	132	390	ug/kg	J
206-44-0	Fluoranthene	ND	390	ug/kg	
86-73-7	Fluorene	ND	390	ug/kg	
118-74-1	Hexachlorobenzene	ND	390	ug/kg	
87-68-3	Hexachlorobutadiene	ND	390	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	ug/kg	
67-72-1	Hexachloroethane	ND	390	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	390	ug/kg	
78-59-1	Isophorone	ND	390	ug/kg	
91-57-6	2-Methylnaphthalene	ND	390	ug/kg	
88-74-4	2-Nitroaniline	ND	390	ug/kg	
99-09-2	3-Nitroaniline	ND	390	ug/kg	
100-01-6	4-Nitroaniline	ND	390	ug/kg	
91-20-3	Naphthalene	ND	390	ug/kg	
98-95-3	Nitrobenzene	ND	390	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	390	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	390	ug/kg	
85-01-8	Phenanthrene	ND	390	ug/kg	
129-00-0	Pyrene	ND	390	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	390	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	93%		37-144%
4165-60-0	Nitrobenzene-d5	74%		36-135%
321-60-8	2-Fluorobiphenyl	80%		44-135%
1718-51-0	Terphenyl-d14	92%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	**Date Sampled:**	02/09/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	85.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01292.D	1	02/21/01	SKW	02/19/01	OP2750	GZF60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	27.7	9.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%

ND = Not detected
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-1-S05		
Lab Sample ID:	F8944-7	**Date Sampled:**	02/09/01
Matrix:	SO - Solid	**Date Received:**	02/12/01
		Percent Solids:	85.2
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	11.5	mg/kg	1	02/19/01	02/20/01	JK	SW846 6010B

RL = Reporting Limit

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SECTION 5

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CHAIN OF CUSTODY

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ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: E8944
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Ogden Environmental + Energy Services, Inc.
ADDRESS: 2904 West corp Blvd., Suite 107
CITY, STATE, ZIP: Huntsville, AL 35805
SEND REPORT TO: Kent Evetts
PHONE #: (256) 539-3016

FACILITY INFORMATION

PROJECT NAME: Red Hill Bulk Fuel Storage Facility
LOCATION: Oahu, HI
PROJECT NO.: 1-1019-0239
FAX #: (256) 539-3014

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOC CLP OLM 03.2	SVOC CLP OLM 03.2	Lead CLP ILM 04.0	TPH as Fuel Oils B	LAB USE ONLY
1	Trip Blanks	–	–	~	LIQ	3					X	X	X				
	Temp Blank	–	–	–	LIQ	1					X	X					
2	RH-BR-1-S01	2/7/01	14:30	JLD	SOL	3					X	X	X	X	X	X	
3	RH-BR-1-S02	2/8/01	08:27	GLG/JLD	SOL	3					X	X	X	X	X	X	
4	RH-BR-1-S03	2/8/01	13:39	JLD	SOL	3					X	X	X	X	X	X	
5	RH-BR-1-D09	2/8/01	13:39	JLD	SOL	3					X	X	X	X	X	X	
6	RH-BR-1-S04	2/8/01	13:53	JLD	SOL	3					X	X	X	X	X	X	
7	RH-BR-1-S05	2/9/01	09:27	GLG	SOL	3					X	X	X	X	X	X	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY	DATE TIME	RECEIVED BY	RELINQUISHED BY	DATE TIME	RECEIVED BY
1. (signature)	2/9/01 ~12:38	1. (signature) 2/12/01 1150	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #		

PRESERVE WHERE APPLICABLE ☐ ON ICE ☐ TEMPERATURE 3.8 C

TANK 2

ACCUTEST.

02/28/01

Technical Report for

Ogden Environmental

CTO 229

1-1019-0229

Accutest Job Number: F8934

Report to:

Ogden Environmental
2904 Westcorp Blvd.
Suite 204
Huntsville, AL 35805

ATTN: Kent Evetts

Total number of pages in report: 475

Harry Behzadi, Ph.D.
Laboratory Director

Sample Summary

Ogden Environmental

Job No: F8934

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8934-1	02/05/01	00:00	JLD	02/09/01	AQ	Trip Blank Soil	TRIP BLANK
F8934-2	02/05/01	09:08	JLD	02/09/01	SO	Solid	RH-BR-2-S01
F8934-3	02/06/01	12:14	JLD	02/09/01	SO	Solid	RH-BR-2-S02
F8934-4	02/06/01	16:40	JLD	02/09/01	SO	Solid	RH-BR-2-S03

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8934-1	Date Sampled:	02/05/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B004014.D	1	02/16/01	JG	n/a	n/a	VB154
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8934-1	Date Sampled:	02/05/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/09/01
Method:	*SW846 8260B*	Percent Solids:	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	Date Sampled:	02/05/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	88.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015143.D	50	02/13/01	NAF	n/a	n/a	VG453
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2700	ug/kg	
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
75-15-0	Carbon disulfide	ND	550	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	ND	270	ug/kg	
591-78-6	2-Hexanone	ND	550	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	550	ug/kg	
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	550	ug/kg	
78-93-3	Methyl ethyl ketone	ND	550	ug/kg	
100-42-5	Styrene	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	ND	820	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	Date Sampled:	02/05/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	88.6
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	95%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	84%		71-122%

(a) Sample introduction performed using method 5030A. Dilution required due to matrix interference (internal standard failure).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	Date Sampled:	02/05/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	88.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003952.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	940	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	940	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	750	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	940	ug/kg	
87-86-5	Pentachlorophenol	ND	940	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	Date Sampled:	02/05/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	88.6
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	380	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	750	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
132-64-9	Dibenzofuran	ND	380	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	ug/kg	
84-66-2	Diethyl phthalate	ND	380	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	ug/kg	
67-72-1	Hexachloroethane	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
78-59-1	Isophorone	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
88-74-4	2-Nitroaniline	ND	380	ug/kg	
99-09-2	3-Nitroaniline	ND	380	ug/kg	
100-01-6	4-Nitroaniline	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
98-95-3	Nitrobenzene	ND	380	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		36-129%
4165-62-2	Phenol-d5	76%		38-135%
118-79-6	2,4,6-Tribromophenol	85%		37-144%
4165-60-0	Nitrobenzene-d5	79%		36-135%
321-60-8	2-Fluorobiphenyl	72%		44-135%
1718-51-0	Terphenyl-d14	100%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	Date Sampled:	02/05/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	88.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01167.D	25	02/14/01	SKW	02/13/01	OP2715	GZF53
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	910	240	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	Date Sampled:	02/05/01
Matrix:	SO - Solid	Date Received:	02/09/01
		Percent Solids:	88.6
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	93.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015135.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	53	ug/kg	
71-43-2	Benzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	ug/kg	
75-25-2	Bromoform	ND	5.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	ug/kg	
74-87-3	Methyl chloride	ND	5.3	ug/kg	
75-09-2	Methylene chloride [b]	11.0	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	93.0
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	95%		73-128%
460-00-4	4-Bromofluorobenzene	97%		53-158%
17060-07-0	1,2-Dichloroethane-D4	90%		71-122%

(a) Sample introduction performed using method 5030A.
(b) Suspected laboratory contaminant.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003953.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.0
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		36-129%
4165-62-2	Phenol-d5	70%		38-135%
118-79-6	2,4,6-Tribromophenol	87%		37-144%
4165-60-0	Nitrobenzene-d5	68%		36-135%
321-60-8	2-Fluorobiphenyl	69%		44-135%
1718-51-0	Terphenyl-d14	110%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	93.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01158.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	22.2	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
		Percent Solids:	93.0
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015136.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride [b]	12.7	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8260B	Percent Solids:	92.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	94%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	85%		71-122%

(a) Sample introduction performed using method 5030A.
(b) Suspected laboratory contaminant.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003954.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		36-129%
4165-62-2	Phenol-d5	66%		38-135%
118-79-6	2,4,6-Tribromophenol	73%		37-144%
4165-60-0	Nitrobenzene-d5	63%		36-135%
321-60-8	2-Fluorobiphenyl	63%		44-135%
1718-51-0	Terphenyl-d14	107%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01159.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	Date Sampled:	02/06/01
Matrix:	SO - Solid	Date Received:	02/09/01
		Percent Solids:	92.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

SECTION 2

CASE NARRATIVE
GC/MS Volatile Analysis

Laboratory Reference No. F8934

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 09, 2001..

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 5030A

Analysis: SW-846 8260B

IV. PREPARATION

Samples were prepared as received. Soil samples were received without EnCore samples and were therefore analyzed using method 5030A.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The LCS recovery for Vinyl Chloride was slightly high in VG452-BS. In addition VG453-BS have high recovery for some of the gases. All recoveries for MS/MSD were within the control limit.

D. Samples: Sample F8934-2 was diluted 50 times due to matrix interference (internal standard failure)

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/28/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F8934

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 09, 2001..

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3550B

Analysis: SW-846 8270C

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The MS/MSD RPD for a number of compounds were out for batch OP2714, however LCS recovery for all these compounds were within the control limit.

D. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/28/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F8934

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. RECEIPT
The samples were received via DHL Worldwide Express on Feb 09, 2001..

II. HOLDING TIMES
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. METHOD
Preparation: SW-846 3550B
Analysis: SW-846 8015 M

IV. PREPARATION
Sample preparation proceeded normally.

V. ANALYSIS
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Samples: Sample F8934-3 petroleum hydrocarbon pattern extends beyond C28.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/28/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8934

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 09, 2001..

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3050B

Analysis: SW-846 6010B (Lead Only)

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

E. Calibration: All acceptance criteria were met.

F. Blanks: All acceptance criteria were met.

G. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.

H. Duplicates: All acceptance criteria were met.

I. Serial Dilutions: The serial dilution was found to be slightly high, but acceptable due to low initial sample concentration (< 50 times the IDL).

J. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/28/01

Harry Behzadi, Ph.D.
Laboratory Director

Internal Sample Tracking Chronicle

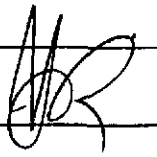
Ogden Environmental

Job No: F8934

CTO 229
Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F8934-1 Collected: 05-FEB-01 00:00 By: JLD Received: 09-FEB-01 By: SMG TRIP BLANK						
F8934-1	SW846 8260B	16-FEB-01 15:34	JG			V8260TCL
F8934-2 Collected: 05-FEB-01 09:08 By: JLD Received: 09-FEB-01 By: SMG RH-BR-2-S01						
F8934-2	EPA 160.3 M	12-FEB-01	LIR			%SOL
F8934-2	SW846 8260B	13-FEB-01 12:26	NAF			V8260TCL
F8934-2	SW846 8270C	13-FEB-01 19:57	ME	13-FEB-01	NJ	AB8270TCL
F8934-2	SW846 8015 M	14-FEB-01 11:33	SKW	13-FEB-01	NJ	B8015DROM1
F8934-2	SW846 6010B	15-FEB-01 13:49	JK	14-FEB-01	LIR	PB
F8934-3 Collected: 06-FEB-01 12:14 By: JLD Received: 09-FEB-01 By: SMG RH-BR-2-S02						
F8934-3	EPA 160.3 M	12-FEB-01	LIR			%SOL
F8934-3	SW846 8260B	12-FEB-01 21:44	NAF			V8260TCL
F8934-3	SW846 8270C	13-FEB-01 20:28	ME	13-FEB-01	NJ	AB8270TCL
F8934-3	SW846 8015 M	13-FEB-01 20:37	SKW	13-FEB-01	NJ	B8015DROM1
F8934-3	SW846 6010B	15-FEB-01 13:55	JK	14-FEB-01	LIR	PB
F8934-4 Collected: 06-FEB-01 16:40 By: JLD Received: 09-FEB-01 By: SMG RH-BR-2-S03						
F8934-4	EPA 160.3 M	12-FEB-01	LIR			%SOL
F8934-4	SW846 8260B	12-FEB-01 22:22	NAF			V8260TCL
F8934-4	SW846 8270C	13-FEB-01 20:59	ME	13-FEB-01	NJ	AB8270TCL
F8934-4	SW846 8015 M	13-FEB-01 21:02	SKW	13-FEB-01	NJ	B8015DROM1
F8934-4	SW846 6010B	15-FEB-01 14:00	JK	14-FEB-01	LIR	PB

005

QA Signature 

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F8934

Client/Project: AMEC Red Hill Bulk Fuel Storage Facility

Date/Time Received: 2/9/01 1100

Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery (Other) DHL

Air Bill Number: 810 3264433

Cooler Temperatures: 6.0

Custody Seals Intact?	(YES)	NO
Chain Of Custody Provided?	(YES)	NO
Chain Of Custody Match Bottles?	(YES)	NO
Sample Labels Present?	(YES)	NO
Are All Bottles Unbroken?	(YES)	NO
Proper Preservative?	(YES)	NO
Correct Containers Used?	(YES)	NO
Sufficient Sample Volume?	(YES)	NO

Number of Encores: Ø

COMMENTS:

Signature: Mike Powell **Date:** 2/9/01

SECTION 3

TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

SECTION 4

ACCUTEST.

Sample Summary

Ogden Environmental

Job No: F8934

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8934-1	02/05/01	00:00	JLD	02/09/01	AQ	Trip Blank Soil	TRIP BLANK
F8934-2	02/05/01	09:08	JLD	02/09/01	SO	Solid	RH-BR-2-S01
F8934-3	02/06/01	12:14	JLD	02/09/01	SO	Solid	RH-BR-2-S02
F8934-4	02/06/01	16:40	JLD	02/09/01	SO	Solid	RH-BR-2-S03

ACCUTEST.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8934-1	**Date Sampled:**	02/05/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B004014.D	1	02/16/01	JG	n/a	n/a	VB154
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8934-1	**Date Sampled:**	02/05/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	**Date Sampled:**	02/05/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	88.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015143.D	50	02/13/01	NAF	n/a	n/a	VG453
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2700	ug/kg	
71-43-2	Benzene	ND	270	ug/kg	
75-27-4	Bromodichloromethane	ND	270	ug/kg	
75-25-2	Bromoform	ND	270	ug/kg	
108-90-7	Chlorobenzene	ND	270	ug/kg	
75-00-3	Chloroethane	ND	270	ug/kg	
67-66-3	Chloroform	ND	270	ug/kg	
75-15-0	Carbon disulfide	ND	550	ug/kg	
56-23-5	Carbon tetrachloride	ND	270	ug/kg	
75-34-3	1,1-Dichloroethane	ND	270	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	270	ug/kg	
107-06-2	1,2-Dichloroethane	ND	270	ug/kg	
78-87-5	1,2-Dichloropropane	ND	270	ug/kg	
124-48-1	Dibromochloromethane	ND	270	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	270	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	270	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	270	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	270	ug/kg	
100-41-4	Ethylbenzene	ND	270	ug/kg	
591-78-6	2-Hexanone	ND	550	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	550	ug/kg	
74-83-9	Methyl bromide	ND	270	ug/kg	
74-87-3	Methyl chloride	ND	270	ug/kg	
75-09-2	Methylene chloride	ND	550	ug/kg	
78-93-3	Methyl ethyl ketone	ND	550	ug/kg	
100-42-5	Styrene	ND	270	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	270	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	270	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	270	ug/kg	
127-18-4	Tetrachloroethylene	ND	270	ug/kg	
108-88-3	Toluene	ND	270	ug/kg	
79-01-6	Trichloroethylene	ND	270	ug/kg	
75-01-4	Vinyl chloride	ND	270	ug/kg	
1330-20-7	Xylene (total)	ND	820	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	**Date Sampled:**	02/05/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	88.6
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	95%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	84%		71-122%

(a) Sample introduction performed using method 5030A. Dilution required due to matrix interference (internal standard failure).

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Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	**Date Sampled:**	02/05/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	88.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003952.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	940	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	940	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	750	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	940	ug/kg	
87-86-5	Pentachlorophenol	ND	940	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	**Date Sampled:**	02/05/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	88.6
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	380	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	750	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
132-64-9	Dibenzofuran	ND	380	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	ug/kg	
84-66-2	Diethyl phthalate	ND	380	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	ug/kg	
67-72-1	Hexachloroethane	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
78-59-1	Isophorone	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
88-74-4	2-Nitroaniline	ND	380	ug/kg	
99-09-2	3-Nitroaniline	ND	380	ug/kg	
100-01-6	4-Nitroaniline	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
98-95-3	Nitrobenzene	ND	380	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		36-129%
4165-62-2	Phenol-d5	76%		38-135%
118-79-6	2,4,6-Tribromophenol	85%		37-144%
4165-60-0	Nitrobenzene-d5	79%		36-135%
321-60-8	2-Fluorobiphenyl	72%		44-135%
1718-51-0	Terphenyl-d14	100%		42-149%

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Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	**Date Sampled:**	02/05/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	88.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01167.D	25	02/14/01	SKW	02/13/01	OP2715	GZF53
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	910	240	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		40-140%

ND = Not detected
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Report of Analysis

Client Sample ID:	RH-BR-2-S01		
Lab Sample ID:	F8934-2	**Date Sampled:**	02/05/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
		Percent Solids:	88.6
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01 JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	93.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015135.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	53	ug/kg	
71-43-2	Benzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	ug/kg	
75-25-2	Bromoform	ND	5.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	ug/kg	
74-87-3	Methyl chloride	ND	5.3	ug/kg	
75-09-2	Methylene chloride [b]	11.0	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	93.0
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	95%		73-128%
460-00-4	4-Bromofluorobenzene	97%		53-158%
17060-07-0	1,2-Dichloroethane-D4	90%		71-122%

(a) Sample introduction performed using method 5030A.
(b) Suspected laboratory contaminant.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003953.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	*F8934-3*	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.0
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		36-129%
4165-62-2	Phenol-d5	70%		38-135%
118-79-6	2,4,6-Tribromophenol	87%		37-144%
4165-60-0	Nitrobenzene-d5	68%		36-135%
321-60-8	2-Fluorobiphenyl	69%		44-135%
1718-51-0	Terphenyl-d14	110%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	93.0
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01158.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	22.2	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S02		
Lab Sample ID:	F8934-3	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
		Percent Solids:	93.0
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015136.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride [b]	12.7	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8260B	**Percent Solids:**	92.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	*Dibromofluoromethane*	95%		71-122%
2037-26-5	Toluene-D8	94%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	85%		71-122%

(a) Sample introduction performed using method 5030A.
(b) Suspected laboratory contaminant.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003954.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	92.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		36-129%
4165-62-2	Phenol-d5	66%		38-135%
118-79-6	2,4,6-Tribromophenol	73%		37-144%
4165-60-0	Nitrobenzene-d5	63%		36-135%
321-60-8	2-Fluorobiphenyl	63%		44-135%
1718-51-0	Terphenyl-d14	107%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01159.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-2-S03		
Lab Sample ID:	F8934-4	**Date Sampled:**	02/06/01
Matrix:	SO - Solid	**Date Received:**	02/09/01
		Percent Solids:	92.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01 JK	SW846 6010B

RL = Reporting Limit

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SECTION 5

CHAIN OF CUSTODY

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ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

Ogden Environmental + Energy Services, Inc.
NAME
3904 Westcorp Blvd., Suite 107
ADDRESS
Huntsville, AL 35805
CITY STATE ZIP
Kent Evetts
SEND REPORT TO:
PHONE # (256) 539-3016

FACILITY INFORMATION

Red Hill Bulk Fuel Storage Facility
PROJECT NAME
Oahu, HI
LOCATION
1-1019-0729
PROJECT NO.
FAX # (256) 539-3014

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	Ice	VOC CLP OLM 03.2	SVOC CLP OLM 03.2	Lead CLP ILM 04.0	TPH as Fuel 8015 B	LAB USE ONLY
F8934-1	Trip Blanks	—	—	—	LIQ	2					X	X	X				
	Temp Blanks	—	—	—	LIQ	1					X	X					
-2	RH-BR-2-S01	2/5/01	09:08	JLD	SOL	3					X	X	X	X	X	X	
-3	RH-BR-2-S02	2/6/01	13:14	JLD	SOL	3					X	X	X	X	X	X	
-4	RH-BR-2-S03	2/6/01	16:40	GLG	SOL	3					X	X	X	X	X	X	

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

DATA TURNAROUND INFORMATION

☒ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☒ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. Dana J. Bloom	2/6/01 17:33	1 Mike Jewell 2/9/01 1100	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE _____ C
5.		5.			

TANK 3

ACCUTEST.

02/27/01

Technical Report for

Ogden Environmental

CTO 229

1-1019-0229

Accutest Job Number: F8884

Report to:

Ogden Environmental
2904 Westcorp Blvd.
Suite 204
Huntsville, AL 35805

ATTN: Kent Evetts

Total number of pages in report: 402

Harry Behzadi, Ph.D.
Laboratory Director

Sample Summary

Ogden Environmental

Job No: F8884

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F8884-1	02/02/01	00:00	JLD	02/05/01	AQ	Trip Blank Soil	TRIP BLANK
F8884-2	02/01/01	12:04	JLD	02/05/01	SO	Solid	RH-BR-3-S02
F8884-3	02/02/01	14:00	JLD	02/05/01	SO	Solid	RH-BR-3-S03

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8884-1	Date Sampled:	02/02/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/05/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002570.D	1	02/12/01	JG	n/a	n/a	VC117
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8884-1	Date Sampled:	02/02/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/05/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8260B	Percent Solids:	91.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015132.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = *Reporting Limit*
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = *Indicates analyte found in associated method blank*
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8260B	Percent Solids:	91.6
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		71-122%
2037-26-5	Toluene-D8	96%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	83%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	91.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W003955.D	4	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3600	ug/kg	
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3600	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	ug/kg	
95-48-7	2-Methylphenol	ND	1400	ug/kg	
	3&4-Methylphenol	ND	1400	ug/kg	
88-75-5	2-Nitrophenol	ND	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	3600	ug/kg	
87-86-5	Pentachlorophenol	ND	3600	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1400	ug/kg	
83-32-9	Acenaphthene	ND	1400	ug/kg	
208-96-8	Acenaphthylene	ND	1400	ug/kg	
120-12-7	Anthracene	ND	1400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
100-51-6	Benzyl Alcohol	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	1400	ug/kg	
86-74-8	Carbazole	ND	1400	ug/kg	
218-01-9	Chrysene	ND	1400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	91.6
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2900	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1400	ug/kg	
132-64-9	Dibenzofuran	ND	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	ND	1400	ug/kg	
86-73-7	Fluorene	ND	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1400	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1400	ug/kg	
88-74-4	2-Nitroaniline	ND	1400	ug/kg	
99-09-2	3-Nitroaniline	ND	1400	ug/kg	
100-01-6	4-Nitroaniline	ND	1400	ug/kg	
91-20-3	Naphthalene	ND	1400	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
85-01-8	Phenanthrene	ND	1400	ug/kg	
129-00-0	Pyrene	ND	1400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		36-129%
4165-62-2	Phenol-d5	82%		38-135%
118-79-6	2,4,6-Tribromophenol	80%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	80%		44-135%
1718-51-0	Terphenyl-d14	96%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	91.6
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference; extract was viscous.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	91.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01165.D	20	02/14/01	SKW	02/13/01	OP2715	GZF53
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	774	180	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	Date Sampled:	02/01/01
Matrix:	SO - Solid	Date Received:	02/05/01
		Percent Solids:	91.6
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.6	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	Date Sampled:	02/02/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8260B	Percent Solids:	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015133.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	ug/kg	
75-25-2	Bromoform	ND	5.4	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	Date Sampled:	02/02/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8260B	Percent Solids:	92.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	96%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	88%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	Date Sampled:	02/02/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003948.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	Date Sampled:	02/02/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	87%		36-129%
4165-62-2	Phenol-d5	94%		38-135%
118-79-6	2,4,6-Tribromophenol	93%		37-144%
4165-60-0	Nitrobenzene-d5	91%		36-135%
321-60-8	2-Fluorobiphenyl	92%		44-135%
1718-51-0	Terphenyl-d14	105%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	Date Sampled:	02/02/01
Matrix:	SO - Solid	Date Received:	02/05/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01148.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	28.9	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	Date Sampled:	02/02/01
Matrix:	SO - Solid	Date Received:	02/05/01
		Percent Solids:	92.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01 JK	SW846 6010B

RL = Reporting Limit

SECTION 2

CASE NARRATIVE
GC/MS Volatile Analysis

Laboratory Reference No. F8884

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/05/01.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 5030B

Analysis: SW-846 8260B

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: No Trip Blank was received.

C. Spikes (Matrix Spike and LCS): All acceptance criteria were met except, LCS recovery for Vinyl Chloride was slightly high (132 vs. 131), no Vinyl Chloride was found in the sample.

D. Duplicates: All acceptance criteria were met.

E. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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 and in the computer-readable data submitted on diskette:

Signed: _____ Date: 2/27/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F8884

Client/Project: AAMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/05/01.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3550B

Analysis: SW-846 8270C

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The MS and MSD RPDs were found to be slightly above the acceptance limits for several analytes. The LCS recovery for all these analytes were within the control limit.

D. Samples: Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/27/01

Hamy Behzadi, Ph.D..
Laboratory Director

CASE NARRATIVE
GC Gasoline Range Organics Analysis

Laboratory Reference No. F8884

Client/Project: AAMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/05/01.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 5030B

Analysis: SW-846 8015

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.

D. Duplicates: All acceptance criteria were met.

E. Samples: Sample analyses proceeded normally, however Petrolume hydrocarbon pattern for these samples extends beyond C28.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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 and in the computer-readable data submitted on diskette:

Signed: _____ Date: 2/27/01

Harry Behzadi, Ph.D..
Laboratory Director

CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8884

Client/Project: AAMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/05/01.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3050B

Analysis: SW-846 6010B (Lead Only)

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.

D. Duplicates: All acceptance criteria were met.

E. Serial Dilutions: Outside of acceptance limit due to low initial concentration.

F. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/22/01

Harry Behzadi, Ph.D.
Laboratory Director

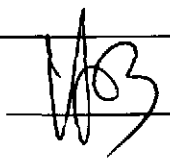
Internal Sample Tracking Chronicle

Ogden Environmental

Job No: F8884

CTO 229
Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F8884-1 Collected: 02-FEB-01 00:00 By: JLD Received: 05-FEB-01 By: SMG TRIP BLANK						
F8884-1	SW846 8260B	12-FEB-01 22:04	JG			V8260TCL
F8884-2 Collected: 01-FEB-01 12:04 By: JLD Received: 05-FEB-01 By: SMG RH-BR-3-S02						
F8884-2	SW846 8260B	12-FEB-01 19:49	NAF			V8260TCL
F8884-2	SW846 8270C	13-FEB-01 21:30	ME	13-FEB-01	NJ	AB8270TCL
F8884-2	SW846 8015 M	14-FEB-01 10:44	SKW	13-FEB-01	NJ	B8015DROM1
F8884-2	EPA 160.3 M	15-FEB-01	LIR			%SOL
F8884-2	SW846 6010B	15-FEB-01 13:39	JK	14-FEB-01	LIR	PB
F8884-3 Collected: 02-FEB-01 14:00 By: JLD Received: 05-FEB-01 By: SMG RH-BR-3-S03						
F8884-3	SW846 8260B	12-FEB-01 20:27	NAF			V8260TCL
F8884-3	SW846 8015 M	13-FEB-01 16:33	SKW	13-FEB-01	NJ	B8015DROM1
F8884-3	SW846 8270C	13-FEB-01 17:54	ME	13-FEB-01	NJ	AB8270TCL
F8884-3	EPA 160.3 M	15-FEB-01	LIR			%SOL
F8884-3	SW846 6010B	15-FEB-01 13:44	JK	14-FEB-01	LIR	PB

QA Signature 

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F8884

Client/Project: Ogden Env. / Red Hill Bulk Fuel Storage

Date/Time Received: 2-5-01 / 1100

Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery (Other) DHL

Air Bill Number: 810326 4422

Cooler Temperatures: 5.8°c

Custody Seals Intact?	(YES)	NO
Chain Of Custody Provided?	(YES)	NO
Chain Of Custody Match Bottles?	(YES)	NO
Sample Labels Present?	(YES)	NO
Are All Bottles Unbroken?	(YES)	NO
Proper Preservative?	(YES)	NO
Correct Containers Used?	(YES)	NO
Sufficient Sample Volume?	(YES)	NO

Number of Encores: Ø

COMMENTS:

Signature: [signature] **Date:** 2-5-01

SECTION 3

TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

SECTION 4

ACCUTEST.

Sample Summary

Ogden Environmental

Job No: F8884

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F8884-1	02/02/01	00:00 JLD	02/05/01	AQ	Trip Blank Soil	TRIP BLANK
F8884-2	02/01/01	12:04 JLD	02/05/01	SO	Solid	RH-BR-3-S02
F8884-3	02/02/01	14:00 JLD	02/05/01	SO	Solid	RH-BR-3-S03

ACCUTEST.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8884-1	**Date Sampled:**	02/02/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/05/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002570.D	1	02/12/01	JG	n/a	n/a	VC117
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8884-1	**Date Sampled:**	02/02/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/05/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8260B	**Percent Solids:**	91.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015132.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8260B	**Percent Solids:**	91.6
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		71-122%
2037-26-5	Toluene-D8	96%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	83%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	91.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W003955.D	4	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3600	ug/kg	
95-57-8	2-Chlorophenol	ND	1400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3600	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	2900	ug/kg	
95-48-7	2-Methylphenol	ND	1400	ug/kg	
	3&4-Methylphenol	ND	1400	ug/kg	
88-75-5	2-Nitrophenol	ND	1400	ug/kg	
100-02-7	4-Nitrophenol	ND	3600	ug/kg	
87-86-5	Pentachlorophenol	ND	3600	ug/kg	
108-95-2	Phenol	ND	1400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1400	ug/kg	
83-32-9	Acenaphthene	ND	1400	ug/kg	
208-96-8	Acenaphthylene	ND	1400	ug/kg	
120-12-7	Anthracene	ND	1400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1400	ug/kg	
100-51-6	Benzyl Alcohol	ND	1400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1400	ug/kg	
106-47-8	4-Chloroaniline	ND	1400	ug/kg	
86-74-8	Carbazole	ND	1400	ug/kg	
218-01-9	Chrysene	ND	1400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1400	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	91.6
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	2900	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1400	ug/kg	
132-64-9	Dibenzofuran	ND	1400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1400	ug/kg	
84-66-2	Diethyl phthalate	ND	1400	ug/kg	
131-11-3	Dimethyl phthalate	ND	1400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1400	ug/kg	
206-44-0	Fluoranthene	ND	1400	ug/kg	
86-73-7	Fluorene	ND	1400	ug/kg	
118-74-1	Hexachlorobenzene	ND	1400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1400	ug/kg	
67-72-1	Hexachloroethane	ND	1400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1400	ug/kg	
78-59-1	Isophorone	ND	1400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1400	ug/kg	
88-74-4	2-Nitroaniline	ND	1400	ug/kg	
99-09-2	3-Nitroaniline	ND	1400	ug/kg	
100-01-6	4-Nitroaniline	ND	1400	ug/kg	
91-20-3	Naphthalene	ND	1400	ug/kg	
98-95-3	Nitrobenzene	ND	1400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1400	ug/kg	
85-01-8	Phenanthrene	ND	1400	ug/kg	
129-00-0	Pyrene	ND	1400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		36-129%
4165-62-2	Phenol-d5	82%		38-135%
118-79-6	2,4,6-Tribromophenol	80%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	80%		44-135%
1718-51-0	Terphenyl-d14	96%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	91.6
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference; extract was viscous.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	91.6
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01165.D	20	02/14/01	SKW	02/13/01	OP2715	GZF53
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	774	180	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S02		
Lab Sample ID:	F8884-2	**Date Sampled:**	02/01/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
		Percent Solids:	91.6
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.6	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	**Date Sampled:**	02/02/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8260B	**Percent Solids:**	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015133.D	1	02/12/01	NAF	n/a	n/a	VG452
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	ug/kg	
75-25-2	Bromoform	ND	5.4	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	**Date Sampled:**	02/02/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8260B	**Percent Solids:**	92.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	96%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	88%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	**Date Sampled:**	02/02/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	*SW846 8270C SW846 3550B*	**Percent Solids:**	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003948.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	**Date Sampled:**	02/02/01
Matrix:	*SO - Solid*	**Date Received:**	02/05/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	92.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	87%		36-129%
4165-62-2	Phenol-d5	94%		38-135%
118-79-6	2,4,6-Tribromophenol	93%		37-144%
4165-60-0	Nitrobenzene-d5	91%		36-135%
321-60-8	2-Fluorobiphenyl	92%		44-135%
1718-51-0	Terphenyl-d14	105%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	**Date Sampled:**	02/02/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	92.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01148.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	28.9	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-3-S03		
Lab Sample ID:	F8884-3	**Date Sampled:**	02/02/01
Matrix:	SO - Solid	**Date Received:**	02/05/01
		Percent Solids:	92.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

SECTION 5

ACCUTEST®

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F8884
ACCUTEST QUOTE #:

25

CLIENT INFORMATION

Ogden Environmental + Energy Services, Inc
NAME
2404 Westcorp Blvd., Suite 107
ADDRESS
Huntsville, AL 35805
CITY, STATE ZIP
Kent Evetts
SEND REPORT TO:
PHONE # (256) 539-3016

FACILITY INFORMATION

Red Hill Bulk Fuel Storage
PROJECT NAME
Oahu, HI
LOCATION
1-10[illegible]-0229
PROJECT NO.

FAX # (256) 539-3014

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOC CLP OLM 03.2	SVOC CLP OLM 03.2	Lead CLP ILM 04.0	TPH as Fuel 8015 B	LAB USE ONLY
1	Trip Blanks	—	—	—	LIQ	2					X	X	X				
	~~Temp Blank~~	—	—	—	LIQ	1					X	X					
2	RH-BR-3-502	2/1/01	12:04	JLD	SOL	3					X	X	X	X	X	X	
3	RH-BR-3-503	2/2/01	14:00	GLG	SOL	3					X	X	X	X	X	X	

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/2/01 @ 15:48	1. [signature] 2.5 1000	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE / TEMPERATURE

TANK 3/4

ACCUTEST

02/28/01

Technical Report for

Ogden Environmental

CTO 229

1-1019-0229

Accutest Job Number: F8872

Report to:

Ogden Environmental
2904 Westcorp Blvd.
Suite 204
Huntsville, AL 35805

ATTN: Kent Evetts

Total number of pages in report: 920

Harry Behzadi, Ph.D.
Laboratory Director

Sample Summary

Ogden Environmental

Job No: F8872

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8872-1	01/29/01	00:00	JLD	02/02/01	AQ	Trip Blank Soil	TRIP BLANK
F8872-2	01/29/01	11:15	JLD	02/02/01	SO	Solid	RH-BR-4-S01
F8872-3	01/29/01	14:55	JLD	02/02/01	SO	Solid	RH-BR-4-S02
F8872-4	01/31/01	12:01	JLD	02/02/01	SO	Solid	RH-BR-4-S03
F8872-5	01/31/01	12:01	JLD	02/02/01	SO	Solid	RH-BR-4-D08
F8872-6	01/31/01	15:13	JLD	02/02/01	SO	Solid	RH-BR-3-S01

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8872-1	Date Sampled:	01/29/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B003829.D	1	02/07/01	JG	n/a	n/a	VB146
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8872-1	Date Sampled:	01/29/01
Matrix:	AQ - Trip Blank Soil	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		69-128%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	65.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010963.D	1	02/12/01	NAF	n/a	n/a	VH273
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	45.0	74	ug/kg	J
71-43-2	Benzene	ND	7.4	ug/kg	
75-27-4	Bromodichloromethane	ND	7.4	ug/kg	
75-25-2	Bromoform	ND	7.4	ug/kg	
108-90-7	Chlorobenzene	ND	7.4	ug/kg	
75-00-3	Chloroethane	ND	7.4	ug/kg	
67-66-3	Chloroform	ND	7.4	ug/kg	
75-15-0	Carbon disulfide	ND	15	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	7.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.4	ug/kg	
124-48-1	Dibromochloromethane	ND	7.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	7.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	7.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.4	ug/kg	
100-41-4	Ethylbenzene	ND	7.4	ug/kg	
591-78-6	2-Hexanone	ND	15	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	15	ug/kg	
74-83-9	Methyl bromide	ND	7.4	ug/kg	
74-87-3	Methyl chloride	ND	7.4	ug/kg	
75-09-2	Methylene chloride	ND	15	ug/kg	
78-93-3	Methyl ethyl ketone	ND	15	ug/kg	
100-42-5	Styrene	ND	7.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	7.4	ug/kg	
108-88-3	Toluene	ND	7.4	ug/kg	
79-01-6	Trichloroethylene	ND	7.4	ug/kg	
75-01-4	Vinyl chloride	ND	7.4	ug/kg	
1330-20-7	Xylene (total)	ND	22	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	65.9
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	118%		53-158%
17060-07-0	1,2-Dichloroethane-D4	89%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	65.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006498.D	1	02/09/01	ME	02/09/01	OP2701	SL387
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1300	ug/kg	
95-57-8	2-Chlorophenol	ND	500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1000	ug/kg	
95-48-7	2-Methylphenol	ND	500	ug/kg	
	3&4-Methylphenol	ND	500	ug/kg	
88-75-5	2-Nitrophenol	ND	500	ug/kg	
100-02-7	4-Nitrophenol	ND	1300	ug/kg	
87-86-5	Pentachlorophenol	ND	1300	ug/kg	
108-95-2	Phenol	ND	500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	ug/kg	
83-32-9	Acenaphthene	ND	500	ug/kg	
208-96-8	Acenaphthylene	ND	500	ug/kg	
120-12-7	Anthracene	ND	500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	500	ug/kg	
100-51-6	Benzyl Alcohol	ND	500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	500	ug/kg	
106-47-8	4-Chloroaniline	ND	500	ug/kg	
86-74-8	Carbazole	ND	500	ug/kg	
218-01-9	Chrysene	ND	500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	65.9
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	500	ug/kg	
132-64-9	Dibenzofuran	ND	500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	500	ug/kg	
84-66-2	Diethyl phthalate	ND	500	ug/kg	
131-11-3	Dimethyl phthalate	ND	500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	500	ug/kg	
206-44-0	Fluoranthene	ND	500	ug/kg	
86-73-7	Fluorene	ND	500	ug/kg	
118-74-1	Hexachlorobenzene	ND	500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	500	ug/kg	
67-72-1	Hexachloroethane	ND	500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	500	ug/kg	
78-59-1	Isophorone	ND	500	ug/kg	
91-57-6	2-Methylnaphthalene	392	500	ug/kg	J
88-74-4	2-Nitroaniline	ND	500	ug/kg	
99-09-2	3-Nitroaniline	ND	500	ug/kg	
100-01-6	4-Nitroaniline	ND	500	ug/kg	
91-20-3	Naphthalene	ND	500	ug/kg	
98-95-3	Nitrobenzene	ND	500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	500	ug/kg	
85-01-8	Phenanthrene	ND	500	ug/kg	
129-00-0	Pyrene	ND	500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		36-129%
4165-62-2	Phenol-d5	76%		38-135%
118-79-6	2,4,6-Tribromophenol	62%		37-144%
4165-60-0	Nitrobenzene-d5	80%		36-135%
321-60-8	2-Fluorobiphenyl	87%		44-135%
1718-51-0	Terphenyl-d14	82%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	65.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01122.D	4	02/12/01	SKW	02/09/01	OP2702	GZF51
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	238	50	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
		Percent Solids:	65.9
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	84.5	14.6	mg/kg	1	02/06/01	02/08/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	89.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010951.D	1	02/12/01	NAF	n/a	n/a	VH273
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	89.3
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	119%		53-158%
17060-07-0	1,2-Dichloroethane-D4	90%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	89.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006499.D	4	02/09/01	ME	02/09/01	OP2701	SL387
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3700	ug/kg	
95-57-8	2-Chlorophenol	ND	1500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3000	ug/kg	
95-48-7	2-Methylphenol	ND	1500	ug/kg	
	3&4-Methylphenol	ND	1500	ug/kg	
88-75-5	2-Nitrophenol	ND	1500	ug/kg	
100-02-7	4-Nitrophenol	ND	3700	ug/kg	
87-86-5	Pentachlorophenol	ND	3700	ug/kg	
108-95-2	Phenol	ND	1500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1500	ug/kg	
83-32-9	Acenaphthene	ND	1500	ug/kg	
208-96-8	Acenaphthylene	ND	1500	ug/kg	
120-12-7	Anthracene	ND	1500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	ug/kg	
100-51-6	Benzyl Alcohol	ND	1500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	ug/kg	
106-47-8	4-Chloroaniline	ND	1500	ug/kg	
86-74-8	Carbazole	ND	1500	ug/kg	
218-01-9	Chrysene	ND	1500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	89.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1500	ug/kg	
132-64-9	Dibenzofuran	ND	1500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	ug/kg	
206-44-0	Fluoranthene	ND	1500	ug/kg	
86-73-7	Fluorene	ND	1500	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1500	ug/kg	
67-72-1	Hexachloroethane	ND	1500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1500	ug/kg	
78-59-1	Isophorone	ND	1500	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1500	ug/kg	
88-74-4	2-Nitroaniline	ND	1500	ug/kg	
99-09-2	3-Nitroaniline	ND	1500	ug/kg	
100-01-6	4-Nitroaniline	ND	1500	ug/kg	
91-20-3	Naphthalene	ND	1500	ug/kg	
98-95-3	Nitrobenzene	ND	1500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	ug/kg	
85-01-8	Phenanthrene	ND	1500	ug/kg	
129-00-0	Pyrene	ND	1500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		36-129%
4165-62-2	Phenol-d5	85%		38-135%
118-79-6	2,4,6-Tribromophenol	96%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	91%		44-135%
1718-51-0	Terphenyl-d14	91%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	89.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	89.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01123.D	40	02/12/01	SKW	02/09/01	OP2702	GZF51
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	1330	370	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	Date Sampled:	01/29/01
Matrix:	SO - Solid	Date Received:	02/02/01
		Percent Solids:	89.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	11.0	mg/kg	1	02/06/01	02/08/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	87.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	H010999.D	1	02/14/01	NAF	n/a	n/a	VH276
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	ug/kg	
75-25-2	Bromoform	ND	5.4	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	87.5
Project:	*CTO 229*		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	104%		53-158%
17060-07-0	1,2-Dichloroethane-D4	94%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003946.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	950	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	950	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	950	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	950	ug/kg	
87-86-5	Pentachlorophenol	ND	950	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.5
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	380	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	760	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
132-64-9	Dibenzofuran	ND	380	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	ug/kg	
84-66-2	Diethyl phthalate	ND	380	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	ug/kg	
67-72-1	Hexachloroethane	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
78-59-1	Isophorone	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
88-74-4	2-Nitroaniline	ND	380	ug/kg	
99-09-2	3-Nitroaniline	ND	380	ug/kg	
100-01-6	4-Nitroaniline	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
98-95-3	Nitrobenzene	ND	380	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	85%		37-144%
4165-60-0	Nitrobenzene-d5	71%		36-135%
321-60-8	2-Fluorobiphenyl	75%		44-135%
1718-51-0	Terphenyl-d14	95%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	87.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01145.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	49.8	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
		Percent Solids:	87.5
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	10.8	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	87.7
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015147.D	1	02/13/01	NAF	n/a	n/a	VG453
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	5.7	ug/kg	
75-27-4	Bromodichloromethane	ND	5.7	ug/kg	
75-25-2	Bromoform	ND	5.7	ug/kg	
108-90-7	Chlorobenzene	ND	5.7	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	5.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg	
100-41-4	Ethylbenzene	ND	5.7	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.7	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
79-01-6	Trichloroethylene	ND	5.7	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	87.7
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	103%		53-158%
17060-07-0	1,2-Dichloroethane-D4	82%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.7
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003947.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	950	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	950	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	950	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	950	ug/kg	
87-86-5	Pentachlorophenol	ND	950	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	87.7
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	380	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	760	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
132-64-9	Dibenzofuran	ND	380	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	ug/kg	
84-66-2	Diethyl phthalate	ND	380	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	ug/kg	
67-72-1	Hexachloroethane	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
78-59-1	Isophorone	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
88-74-4	2-Nitroaniline	ND	380	ug/kg	
99-09-2	3-Nitroaniline	ND	380	ug/kg	
100-01-6	4-Nitroaniline	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
98-95-3	Nitrobenzene	ND	380	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		36-129%
4165-62-2	Phenol-d5	78%		38-135%
118-79-6	2,4,6-Tribromophenol	86%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	75%		44-135%
1718-51-0	Terphenyl-d14	98%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	87.7
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01146.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	14.5	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
		Percent Solids:	87.7
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	73.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010952.D	1	02/12/01	NAF	n/a	n/a	VH273
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	41.2	64	ug/kg	J
71-43-2	Benzene	ND	6.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	ug/kg	
75-25-2	Bromoform	ND	6.4	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	ug/kg	
75-00-3	Chloroethane	ND	6.4	ug/kg	
67-66-3	Chloroform	ND	6.4	ug/kg	
75-15-0	Carbon disulfide	ND	13	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	ug/kg	
100-41-4	Ethylbenzene	ND	6.4	ug/kg	
591-78-6	2-Hexanone	ND	13	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/kg	
74-83-9	Methyl bromide	ND	6.4	ug/kg	
74-87-3	Methyl chloride	ND	6.4	ug/kg	
75-09-2	Methylene chloride	ND	13	ug/kg	
78-93-3	Methyl ethyl ketone	ND	13	ug/kg	
100-42-5	Styrene	ND	6.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.4	ug/kg	
108-88-3	Toluene	ND	6.4	ug/kg	
79-01-6	Trichloroethylene	ND	6.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	ug/kg	
1330-20-7	Xylene (total)	ND	19	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8260B	Percent Solids:	73.4
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	113%		53-158%
17060-07-0	1,2-Dichloroethane-D4	90%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	73.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006502.D	1	02/09/01	ME	02/09/01	OP2701	SL387
Run #2	L006526.D	2	02/13/01	ME	02/09/01	OP2701	SL389

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1100	ug/kg	
95-57-8	2-Chlorophenol	ND	450	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	450	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	450	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	910	ug/kg	
95-48-7	2-Methylphenol	ND	450	ug/kg	
	3&4-Methylphenol	ND	450	ug/kg	
88-75-5	2-Nitrophenol	ND	450	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	ug/kg	
108-95-2	Phenol	ND	450	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	450	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	450	ug/kg	
83-32-9	Acenaphthene	ND	450	ug/kg	
208-96-8	Acenaphthylene	ND	450	ug/kg	
120-12-7	Anthracene	ND	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	450	ug/kg	
50-32-8	Benzo(a)pyrene	ND	450	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	450	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	450	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	450	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	450	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	450	ug/kg	
100-51-6	Benzyl Alcohol	ND	450	ug/kg	
91-58-7	2-Chloronaphthalene	ND	450	ug/kg	
106-47-8	4-Chloroaniline	ND	450	ug/kg	
86-74-8	Carbazole	ND	450	ug/kg	
218-01-9	Chrysene	ND	450	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	450	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	450	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	450	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	450	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	450	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	450	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	73.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	450	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	450	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	450	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	910	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	450	ug/kg	
132-64-9	Dibenzofuran	ND	450	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	450	ug/kg	
84-66-2	Diethyl phthalate	ND	450	ug/kg	
131-11-3	Dimethyl phthalate	ND	450	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	159	450	ug/kg	J
206-44-0	Fluoranthene	ND	450	ug/kg	
86-73-7	Fluorene	ND	450	ug/kg	
118-74-1	Hexachlorobenzene	ND	450	ug/kg	
87-68-3	Hexachlorobutadiene	ND	450	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	450	ug/kg	
67-72-1	Hexachloroethane	ND	450	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	450	ug/kg	
78-59-1	Isophorone	ND	450	ug/kg	
91-57-6	2-Methylnaphthalene	ND	450	ug/kg	
88-74-4	2-Nitroaniline	ND	450	ug/kg	
99-09-2	3-Nitroaniline	ND	450	ug/kg	
100-01-6	4-Nitroaniline	ND	450	ug/kg	
91-20-3	Naphthalene	ND	450	ug/kg	
98-95-3	Nitrobenzene	ND	450	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	450	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	450	ug/kg	
85-01-8	Phenanthrene	ND	450	ug/kg	
129-00-0	Pyrene	ND	450	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	450	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%	66%	36-129%
4165-62-2	Phenol-d5	69%	78%	38-135%
118-79-6	2,4,6-Tribromophenol	18% [a]	20% [a]	37-144%
4165-60-0	Nitrobenzene-d5	70%	74%	36-135%
321-60-8	2-Fluorobiphenyl	76%	85%	44-135%
1718-51-0	Terphenyl-d14	80%	86%	42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	73.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	73.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01124.D	10	02/12/01	SKW	02/09/01	OP2702	GZF51
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	386	110	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	Date Sampled:	01/31/01
Matrix:	SO - Solid	Date Received:	02/02/01
		Percent Solids:	73.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	14.5	13.5	mg/kg	1	02/05/01	02/06/01	JK	SW846 6010B

RL = Reporting Limit

SECTION 2

Internal Sample Tracking Chronicle

Ogden Environmental

Job No: F8872

CTO 229
Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F8872-1 Collected: 29-JAN-01 00:00 By: JLD Received: 02-FEB-01 By: SMG TRIP BLANK						
F8872-1	SW846 8260B	07-FEB-01 15:57	JG			V8260TCL
F8872-2 Collected: 29-JAN-01 11:15 By: JLD Received: 02-FEB-01 By: SMG RH-BR-4-S01						
F8872-2	EPA 160.3 M	06-FEB-01	SJL			%SOL
F8872-2	SW846 6010B	08-FEB-01 15:59	JK	06-FEB-01	SJL	PB
F8872-2	SW846 8270C	09-FEB-01 19:04	ME	09-FEB-01	NJ	AB8270TCL
F8872-2	SW846 8015 M	12-FEB-01 18:02	SKW	09-FEB-01	NJ	B8015DROM1
F8872-2	SW846 8260B	12-FEB-01 23:08	NAF			V8260TCL
F8872-3 Collected: 29-JAN-01 14:55 By: JLD Received: 02-FEB-01 By: SMG RH-BR-4-S02						
F8872-3	EPA 160.3 M	06-FEB-01	SJL			%SOL
F8872-3	SW846 6010B	08-FEB-01 16:04	JK	06-FEB-01	SJL	PB
F8872-3	SW846 8270C	09-FEB-01 19:37	ME	09-FEB-01	NJ	AB8270TCL
F8872-3	SW846 8260B	12-FEB-01 15:02	NAF			V8260TCL
F8872-3	SW846 8015 M	12-FEB-01 18:27	SKW	09-FEB-01	NJ	B8015DROM1
F8872-4 Collected: 31-JAN-01 12:01 By: JLD Received: 02-FEB-01 By: SMG RH-BR-4-S03						
F8872-4	EPA 160.3 M	08-FEB-01	SJL			%SOL
F8872-4	SW846 8015 M	13-FEB-01 15:20	SKW	13-FEB-01	NJ	B8015DROM1
F8872-4	SW846 8270C	13-FEB-01 16:52	ME	13-FEB-01	NJ	AB8270TCL
F8872-4	SW846 8260B	14-FEB-01 22:54	NAF			V8260TCL
F8872-4	SW846 6010B	15-FEB-01 13:28	JK	14-FEB-01	LIR	PB
F8872-5 Collected: 31-JAN-01 12:01 By: JLD Received: 02-FEB-01 By: SMG RH-BR-4-D08						
F8872-5	EPA 160.3 M	08-FEB-01	SJL			%SOL
F8872-5	SW846 8260B	13-FEB-01 15:06	NAF			V8260TCL
F8872-5	SW846 8015 M	13-FEB-01 15:44	SKW	13-FEB-01	NJ	B8015DROM1
F8872-5	SW846 8270C	13-FEB-01 17:23	ME	13-FEB-01	NJ	AB8270TCL
F8872-5	SW846 6010B	15-FEB-01 13:33	JK	14-FEB-01	LIR	PB

Internal Sample Tracking Chronicle

Ogden Environmental

Job No: F8872

CTO 229
Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F8872-6 Collected: 31-JAN-01 15:13 By: JLD Received: 02-FEB-01 By: SMG RH-BR-3-S01						
F8872-6	SW846 6010B	06-FEB-01 14:16	JK	05-FEB-01	LIR	PB
F8872-6	EPA 160.3 M	08-FEB-01	SJL			%SOL
F8872-6	SW846 8270C	09-FEB-01 21:15	ME	09-FEB-01	NJ	AB8270TCL
F8872-6	SW846 8260B	12-FEB-01 15:41	NAF			V8260TCL
F8872-6	SW846 8015 M	12-FEB-01 18:51	SKW	09-FEB-01	NJ	B8015DROM1
F8872-6	SW846 8270C	13-FEB-01 16:45	ME	09-FEB-01	NJ	AB8270TCL

QA Signature

CASE NARRATIVE
GC/MS Volatile Analysis

Laboratory Reference No. F8872

Client/Project: *AMEC/CTO 299 – 1-1019-0229*

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 2, 2001.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 5030A

Analysis: SW-846 8260B

IV. PREPARATION

Samples were prepared as received. Soil samples were received without EnCore samples and were therefore analyzed using method 5030A.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The MS and MSD for all the compounds were within the control limit. However LCS recovery VG453-BS for the following compounds were high; Vinyl Chloride Methyl Bromide and Chloroethane.

D. Samples: Sample analysis proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/27/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F8872

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 2, 2001.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3550B

Analysis: SW-846 8270C

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The MS and MSD RPDs were found to be slightly below the acceptance limits for several analytes. The LCS (blank spike) for these compounds was found to be acceptable for all compounds.

D. Samples: Sample analysis proceeded normally except, sample F8872-3 was diluted 4 times due to matrix interference. Sample F8872-6 surrogate 2,4,6-Tribromophenol was low due to matrix interference, this was confirmed by re-analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/27/01

Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F8872

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. **RECEIPT**
The samples were received via DHL Worldwide Express on Feb 2, 2001.

II. **HOLDING TIMES**
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. **METHOD**
Preparation: SW-846 3550B
Analysis: SW-846 8015 M

IV. **PREPARATION**
Sample preparation proceeded normally.

V. **ANALYSIS**
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Samples: For sample F8872-3 the surrogate were diluted out due to dilution. For samples F8872-2, F8872-4, F8872-5 Petroleum hydrocarbon pattern extends beyond C28.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/27/01
Harry Behzadi, Ph.D.
Laboratory Director

CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8872

Client/Project: AMEC/CTO 299 – 1-1019-0229

I. RECEIPT
The samples were received via DHL Worldwide Express on Feb 2, 2001.

II. HOLDING TIMES
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. METHOD
Preparation: SW-846 3050B
Analysis: SW-846 6010B (Lead Only)

IV. PREPARATION
Sample preparation proceeded normally.

V. ANALYSIS
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Duplicates: All acceptance criteria were met.
E. Serial Dilutions: All acceptance criteria were met.
F. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: _____ Date: 2/27/01
Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: E8872

Client/Project: AMEC

Date/Time Received: 2/2/01 1200

Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery (Other)

Air Bill Number: DHL 8103264503

Cooler Temperatures: 5.3°

Custody Seals Intact?	(YES)	NO
Chain Of Custody Provided?	(YES)	NO
Chain Of Custody Match Bottles?	(YES)	NO
Sample Labels Present?	(YES)	NO
Are All Bottles Unbroken?	(YES)	NO
Proper Preservative?	(YES)	NO
Correct Containers Used?	(YES)	NO
Sufficient Sample Volume?	(YES)	NO
Number of Encores:	—	

COMMENTS:

Signature: _____ **Date:** 2/2/01

SECTION 3

TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

SECTION 4

ACCUTEST.

Sample Summary

Ogden Environmental

Job No: F8872

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8872-1	01/29/01	00:00	JLD	02/02/01	AQ	Trip Blank Soil	TRIP BLANK
F8872-2	01/29/01	11:15	JLD	02/02/01	SO	Solid	RH-BR-4-S01
F8872-3	01/29/01	14:55	JLD	02/02/01	SO	Solid	RH-BR-4-S02
F8872-4	01/31/01	12:01	JLD	02/02/01	SO	Solid	RH-BR-4-S03
F8872-5	01/31/01	12:01	JLD	02/02/01	SO	Solid	RH-BR-4-D08
F8872-6	01/31/01	15:13	JLD	02/02/01	SO	Solid	RH-BR-3-S01

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8872-1	**Date Sampled:**	01/29/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B003829.D	1	02/07/01	JG	n/a	n/a	VB146
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8872-1	**Date Sampled:**	01/29/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		69-128%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

012

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Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	65.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010963.D	1	02/12/01	NAF	n/a	n/a	VH273
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	45.0	74	ug/kg	J
71-43-2	Benzene	ND	7.4	ug/kg	
75-27-4	Bromodichloromethane	ND	7.4	ug/kg	
75-25-2	Bromoform	ND	7.4	ug/kg	
108-90-7	Chlorobenzene	ND	7.4	ug/kg	
75-00-3	Chloroethane	ND	7.4	ug/kg	
67-66-3	Chloroform	ND	7.4	ug/kg	
75-15-0	Carbon disulfide	ND	15	ug/kg	
56-23-5	Carbon tetrachloride	ND	7.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	7.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	7.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	7.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	7.4	ug/kg	
124-48-1	Dibromochloromethane	ND	7.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	7.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	7.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	7.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	7.4	ug/kg	
100-41-4	Ethylbenzene	ND	7.4	ug/kg	
591-78-6	2-Hexanone	ND	15	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	15	ug/kg	
74-83-9	Methyl bromide	ND	7.4	ug/kg	
74-87-3	Methyl chloride	ND	7.4	ug/kg	
75-09-2	Methylene chloride	ND	15	ug/kg	
78-93-3	Methyl ethyl ketone	ND	15	ug/kg	
100-42-5	Styrene	ND	7.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	7.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	7.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	7.4	ug/kg	
108-88-3	Toluene	ND	7.4	ug/kg	
79-01-6	Trichloroethylene	ND	7.4	ug/kg	
75-01-4	Vinyl chloride	ND	7.4	ug/kg	
1330-20-7	Xylene (total)	ND	22	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	65.9
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	118%		53-158%
17060-07-0	1,2-Dichloroethane-D4	89%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	65.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006498.D	1	02/09/01	ME	02/09/01	OP2701	SL387
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1300	ug/kg	
95-57-8	2-Chlorophenol	ND	500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1300	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1000	ug/kg	
95-48-7	2-Methylphenol	ND	500	ug/kg	
	3&4-Methylphenol	ND	500	ug/kg	
88-75-5	2-Nitrophenol	ND	500	ug/kg	
100-02-7	4-Nitrophenol	ND	1300	ug/kg	
87-86-5	Pentachlorophenol	ND	1300	ug/kg	
108-95-2	Phenol	ND	500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	500	ug/kg	
83-32-9	Acenaphthene	ND	500	ug/kg	
208-96-8	Acenaphthylene	ND	500	ug/kg	
120-12-7	Anthracene	ND	500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	500	ug/kg	
100-51-6	Benzyl Alcohol	ND	500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	500	ug/kg	
106-47-8	4-Chloroaniline	ND	500	ug/kg	
86-74-8	Carbazole	ND	500	ug/kg	
218-01-9	Chrysene	ND	500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	500	ug/kg	

ND = Not detected
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Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	65.9
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	500	ug/kg	
132-64-9	Dibenzofuran	ND	500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	500	ug/kg	
84-66-2	Diethyl phthalate	ND	500	ug/kg	
131-11-3	Dimethyl phthalate	ND	500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	500	ug/kg	
206-44-0	Fluoranthene	ND	500	ug/kg	
86-73-7	Fluorene	ND	500	ug/kg	
118-74-1	Hexachlorobenzene	ND	500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	500	ug/kg	
67-72-1	Hexachloroethane	ND	500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	500	ug/kg	
78-59-1	Isophorone	ND	500	ug/kg	
91-57-6	2-Methylnaphthalene	392	500	ug/kg	J
88-74-4	2-Nitroaniline	ND	500	ug/kg	
99-09-2	3-Nitroaniline	ND	500	ug/kg	
100-01-6	4-Nitroaniline	ND	500	ug/kg	
91-20-3	Naphthalene	ND	500	ug/kg	
98-95-3	Nitrobenzene	ND	500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	500	ug/kg	
85-01-8	Phenanthrene	ND	500	ug/kg	
129-00-0	Pyrene	ND	500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		36-129%
4165-62-2	Phenol-d5	76%		38-135%
118-79-6	2,4,6-Tribromophenol	62%		37-144%
4165-60-0	Nitrobenzene-d5	80%		36-135%
321-60-8	2-Fluorobiphenyl	87%		44-135%
1718-51-0	Terphenyl-d14	82%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	65.9
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01122.D	4	02/12/01	SKW	02/09/01	OP2702	GZF51
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	238	50	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-4-S01		
Lab Sample ID:	F8872-2	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
		Percent Solids:	65.9
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	84.5	14.6	mg/kg	1	02/06/01	02/08/01	JK	SW846 6010B

RL = Reporting Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	89.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010951.D	1	02/12/01	NAF	n/a	n/a	VH273
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	89.3
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	119%		53-158%
17060-07-0	1,2-Dichloroethane-D4	90%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	89.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L006499.D	4	02/09/01	ME	02/09/01	OP2701	SL387
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	3700	ug/kg	
95-57-8	2-Chlorophenol	ND	1500	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1500	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	3700	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3000	ug/kg	
95-48-7	2-Methylphenol	ND	1500	ug/kg	
	3&4-Methylphenol	ND	1500	ug/kg	
88-75-5	2-Nitrophenol	ND	1500	ug/kg	
100-02-7	4-Nitrophenol	ND	3700	ug/kg	
87-86-5	Pentachlorophenol	ND	3700	ug/kg	
108-95-2	Phenol	ND	1500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1500	ug/kg	
83-32-9	Acenaphthene	ND	1500	ug/kg	
208-96-8	Acenaphthylene	ND	1500	ug/kg	
120-12-7	Anthracene	ND	1500	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1500	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1500	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1500	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1500	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1500	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1500	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	ug/kg	
100-51-6	Benzyl Alcohol	ND	1500	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1500	ug/kg	
106-47-8	4-Chloroaniline	ND	1500	ug/kg	
86-74-8	Carbazole	ND	1500	ug/kg	
218-01-9	Chrysene	ND	1500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1500	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1500	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1500	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1500	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	89.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1500	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	1500	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	1500	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	3000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	1500	ug/kg	
132-64-9	Dibenzofuran	ND	1500	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	ug/kg	
206-44-0	Fluoranthene	ND	1500	ug/kg	
86-73-7	Fluorene	ND	1500	ug/kg	
118-74-1	Hexachlorobenzene	ND	1500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	1500	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1500	ug/kg	
67-72-1	Hexachloroethane	ND	1500	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1500	ug/kg	
78-59-1	Isophorone	ND	1500	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1500	ug/kg	
88-74-4	2-Nitroaniline	ND	1500	ug/kg	
99-09-2	3-Nitroaniline	ND	1500	ug/kg	
100-01-6	4-Nitroaniline	ND	1500	ug/kg	
91-20-3	Naphthalene	ND	1500	ug/kg	
98-95-3	Nitrobenzene	ND	1500	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	1500	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	1500	ug/kg	
85-01-8	Phenanthrene	ND	1500	ug/kg	
129-00-0	Pyrene	ND	1500	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	1500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		36-129%
4165-62-2	Phenol-d5	85%		38-135%
118-79-6	2,4,6-Tribromophenol	96%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	91%		44-135%
1718-51-0	Terphenyl-d14	91%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	89.3
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-S02		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	89.3
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01123.D	40	02/12/01	SKW	02/09/01	OP2702	GZF51
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	1330	370	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		40-140%

(a) Outside control limits due to dilution.

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Report of Analysis

Client Sample ID:	*RH-BR-4-S02*		
Lab Sample ID:	F8872-3	**Date Sampled:**	01/29/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
		Percent Solids:	89.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.0	mg/kg	1	02/06/01	02/08/01 JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	87.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010999.D	1	02/14/01	NAF	n/a	n/a	VH276
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	5.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	ug/kg	
75-25-2	Bromoform	ND	5.4	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	5.4	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	ug/kg	
108-88-3	Toluene	ND	5.4	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

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Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	87.5
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	104%		53-158%
17060-07-0	1,2-Dichloroethane-D4	94%		71-122%

(a) Sample introduction performed using method 5030A.

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J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	87.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003946.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	950	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	950	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	950	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	950	ug/kg	
87-86-5	Pentachlorophenol	ND	950	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

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Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	87.5
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	380	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	760	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
132-64-9	Dibenzofuran	ND	380	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	ug/kg	
84-66-2	Diethyl phthalate	ND	380	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	ug/kg	
67-72-1	Hexachloroethane	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
78-59-1	Isophorone	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
88-74-4	2-Nitroaniline	ND	380	ug/kg	
99-09-2	3-Nitroaniline	ND	380	ug/kg	
100-01-6	4-Nitroaniline	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
98-95-3	Nitrobenzene	ND	380	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	85%		37-144%
4165-60-0	Nitrobenzene-d5	71%		36-135%
321-60-8	2-Fluorobiphenyl	75%		44-135%
1718-51-0	Terphenyl-d14	95%		42-149%

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Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	87.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01145.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	49.8	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
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J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	RH-BR-4-S03		
Lab Sample ID:	F8872-4	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
		Percent Solids:	87.5
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	10.8	mg/kg	1	02/14/01	02/15/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	87.7
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	G0015147.D	1	02/13/01	NAF	n/a	n/a	VG453
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	5.7	ug/kg	
75-27-4	Bromodichloromethane	ND	5.7	ug/kg	
75-25-2	Bromoform	ND	5.7	ug/kg	
108-90-7	Chlorobenzene	ND	5.7	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	5.7	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.7	ug/kg	
124-48-1	Dibromochloromethane	ND	5.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.7	ug/kg	
100-41-4	Ethylbenzene	ND	5.7	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.7	ug/kg	
108-88-3	Toluene	ND	5.7	ug/kg	
79-01-6	Trichloroethylene	ND	5.7	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	87.7
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	103%		53-158%
17060-07-0	1,2-Dichloroethane-D4	82%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	87.7
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003947.D	1	02/13/01	ME	02/13/01	OP2714	SW227
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	950	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	950	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	950	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	950	ug/kg	
87-86-5	Pentachlorophenol	ND	950	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	87.7
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	380	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	380	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	380	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	760	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	380	ug/kg	
132-64-9	Dibenzofuran	ND	380	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	ug/kg	
84-66-2	Diethyl phthalate	ND	380	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
118-74-1	Hexachlorobenzene	ND	380	ug/kg	
87-68-3	Hexachlorobutadiene	ND	380	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	ug/kg	
67-72-1	Hexachloroethane	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	
78-59-1	Isophorone	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
88-74-4	2-Nitroaniline	ND	380	ug/kg	
99-09-2	3-Nitroaniline	ND	380	ug/kg	
100-01-6	4-Nitroaniline	ND	380	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
98-95-3	Nitrobenzene	ND	380	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	380	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		36-129%
4165-62-2	Phenol-d5	78%		38-135%
118-79-6	2,4,6-Tribromophenol	86%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	75%		44-135%
1718-51-0	Terphenyl-d14	98%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	87.7
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	ZF01146.D	1	02/13/01	SKW	02/13/01	OP2715	GZF52
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	14.5	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		40-140%

(a) Petroleum hydrocarbon pattern extends beyond C28, value may be low.

ND = Not detected
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J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	RH-BR-4-D08		
Lab Sample ID:	F8872-5	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
		Percent Solids:	87.7
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.5	mg/kg	1	02/14/01	02/15/01 JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	73.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010952.D	1	02/12/01	NAF	n/a	n/a	VH273
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	41.2	64	ug/kg	J
71-43-2	Benzene	ND	6.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	ug/kg	
75-25-2	Bromoform	ND	6.4	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	ug/kg	
75-00-3	Chloroethane	ND	6.4	ug/kg	
67-66-3	Chloroform	ND	6.4	ug/kg	
75-15-0	Carbon disulfide	ND	13	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	ug/kg	
100-41-4	Ethylbenzene	ND	6.4	ug/kg	
591-78-6	2-Hexanone	ND	13	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/kg	
74-83-9	Methyl bromide	ND	6.4	ug/kg	
74-87-3	Methyl chloride	ND	6.4	ug/kg	
75-09-2	Methylene chloride	ND	13	ug/kg	
78-93-3	Methyl ethyl ketone	ND	13	ug/kg	
100-42-5	Styrene	ND	6.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.4	ug/kg	
108-88-3	Toluene	ND	6.4	ug/kg	
79-01-6	Trichloroethylene	ND	6.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.4	ug/kg	
1330-20-7	Xylene (total)	ND	19	ug/kg	

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Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8260B	**Percent Solids:**	73.4
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	113%		53-158%
17060-07-0	1,2-Dichloroethane-D4	90%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	73.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006502.D	1	02/09/01	ME	02/09/01	OP2701	SL387
Run #2	L006526.D	2	02/13/01	ME	02/09/01	OP2701	SL389

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1100	ug/kg	
95-57-8	2-Chlorophenol	ND	450	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	450	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	450	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1100	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	910	ug/kg	
95-48-7	2-Methylphenol	ND	450	ug/kg	
	3&4-Methylphenol	ND	450	ug/kg	
88-75-5	2-Nitrophenol	ND	450	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	ug/kg	
87-86-5	Pentachlorophenol	ND	1100	ug/kg	
108-95-2	Phenol	ND	450	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	450	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	450	ug/kg	
83-32-9	Acenaphthene	ND	450	ug/kg	
208-96-8	Acenaphthylene	ND	450	ug/kg	
120-12-7	Anthracene	ND	450	ug/kg	
56-55-3	Benzo(a)anthracene	ND	450	ug/kg	
50-32-8	Benzo(a)pyrene	ND	450	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	450	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	450	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	450	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	450	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	450	ug/kg	
100-51-6	Benzyl Alcohol	ND	450	ug/kg	
91-58-7	2-Chloronaphthalene	ND	450	ug/kg	
106-47-8	4-Chloroaniline	ND	450	ug/kg	
86-74-8	Carbazole	ND	450	ug/kg	
218-01-9	Chrysene	ND	450	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	450	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	450	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	450	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	450	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	450	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	450	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	73.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	450	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	450	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	450	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	910	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	450	ug/kg	
132-64-9	Dibenzofuran	ND	450	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	450	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	450	ug/kg	
84-66-2	Diethyl phthalate	ND	450	ug/kg	
131-11-3	Dimethyl phthalate	ND	450	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	159	450	ug/kg	J
206-44-0	Fluoranthene	ND	450	ug/kg	
86-73-7	Fluorene	ND	450	ug/kg	
118-74-1	Hexachlorobenzene	ND	450	ug/kg	
87-68-3	Hexachlorobutadiene	ND	450	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	450	ug/kg	
67-72-1	Hexachloroethane	ND	450	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	450	ug/kg	
78-59-1	Isophorone	ND	450	ug/kg	
91-57-6	2-Methylnaphthalene	ND	450	ug/kg	
88-74-4	2-Nitroaniline	ND	450	ug/kg	
99-09-2	3-Nitroaniline	ND	450	ug/kg	
100-01-6	4-Nitroaniline	ND	450	ug/kg	
91-20-3	Naphthalene	ND	450	ug/kg	
98-95-3	Nitrobenzene	ND	450	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	450	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	450	ug/kg	
85-01-8	Phenanthrene	ND	450	ug/kg	
129-00-0	Pyrene	ND	450	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	450	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%	66%	36-129%
4165-62-2	Phenol-d5	69%	78%	38-135%
118-79-6	2,4,6-Tribromophenol	18% [a]	20% [a]	37-144%
4165-60-0	Nitrobenzene-d5	70%	74%	36-135%
321-60-8	2-Fluorobiphenyl	76%	85%	44-135%
1718-51-0	Terphenyl-d14	80%	86%	42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

041

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Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	73.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	73.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01124.D	10	02/12/01	SKW	02/09/01	OP2702	GZF51
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	386	110	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-3-S01		
Lab Sample ID:	F8872-6	**Date Sampled:**	01/31/01
Matrix:	SO - Solid	**Date Received:**	02/02/01
		Percent Solids:	73.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	14.5	13.5	mg/kg	1	02/05/01	02/06/01	JK	SW846 6010B

RL = Reporting Limit

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SECTION 5

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ACCUTEST JOB #: F8842

ACCUTEST QUOTE #:

045

CLIENT INFORMATION

NAME: Ogden Environmental + Energy Services, Inc.
ADDRESS: 2904 Westcorp Blvd., Suite 107
CITY, STATE, ZIP: Huntsvill, AL 35805
SEND REPORT TO: Kent Evetts
PHONE #: (256) 539-3016

FACILITY INFORMATION

Red Hill Bulk Fuel Storage
PROJECT NAME: Oahu, HI
LOCATION: 1-019-0229
PROJECT NO.:
FAX #: (256) 539-3014

ANALYTICAL INFORMATION: VOC CLP OLM Ø3.2; SVOC CLP OLM Ø3.2; Lead CLP ILM Ø4.Ø; TPH as Fuel 8Ø15 B

MATRIX CODES: DW - DRINKING WATER; GW - GROUND WATER; WW - WASTE WATER; SO - SOIL; SL - SLUDGE; OI - OIL; LIQ - OTHER LIQUID; SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	ICE	VOC CLP OLM Ø3.2	SVOC CLP OLM Ø3.2	Lead CLP ILM Ø4.Ø	TPH as Fuel 8Ø15 B	LAB USE ONLY
1	Trip Blanks	—	—	—	LIQ	2					X	X	X				
	Temp Blank	—	—	—	LIQ	1					X	X					
2	RH-BR-4-SØ1	1/29/01	≈11:15	JLD	SOL	3					X	X	X	X	X	X	
3	RH-BR-4-SØ2	1/29/01	≈14:35	JLD/GLG	SOL	3					X	X	X	X	X	X	
4	RH-BR-4-SØ3	1/31/01	≈13:01	GLG	SOL	3					X	X	X	X	X	X	
5	RH-BR-4-DØ3	1/31/01	≈12:01	GLG	SOL	3					X	X	X	X	X	X	
6	RH-BR-~~4~~3-SØ1	1/31/01	≈13:13	JLD	SOL	3					X	X	X	X	X	X	

DATA TURNAROUND INFORMATION

☐ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER ________

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) ________

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	1/31/01 ≈16:50	1. [signature] 2/2/01 800	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ / TEMPERATURE 5.3 C

TANK 5/6

ACCUTEST.

02/14/01

Technical Report for

Ogden Environmental

CTO 229

1-1019-0229

Accutest Job Number: F8826

Report to:

Ogden Environmental
2904 Westcorp Blvd.
Suite 204
Huntsville, AL 35805

ATTN: Kent Evetts

Total number of pages in report: 636

Harry Behzadi, Ph.D.
Laboratory Director

Sample Summary

Ogden Environmental

Job No: F8826

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8826-1	01/26/01	00:00	GLG	01/29/01	AQ	Trip Blank Soil	TRIP BLANK
F8826-2	01/26/01	08:27	GLG	01/29/01	SO	Solid	RH-BR-5-S03
F8826-3	01/26/01	16:18	GLG	01/29/01	SO	Solid	RH-BR-5-S04
F8826-4	01/26/01	16:48	GLG	01/29/01	SO	Solid	RH-BR-5-S05
F8826-5	01/24/01	11:08	GLG	01/29/01	SO	Solid	RH-BR-6-S04
F8826-6	01/25/01	09:05	GLG	01/29/01	SO	Solid	RH-BR-6-S01
F8826-7	01/25/01	10:14	GLG	01/29/01	SO	Solid	RH-BR-5-S02

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8826-1	Date Sampled:	01/26/01
Matrix:	AQ - Trip Blank Soil	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002365.D	1	01/31/01	JG	n/a	n/a	VC107
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8826-1	Date Sampled:	01/26/01
Matrix:	AQ - Trip Blank Soil	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	97.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010796.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	97.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	98%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	97.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006388.D	1	02/02/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	860	ug/kg	
95-57-8	2-Chlorophenol	ND	340	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	340	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	340	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	860	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	860	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	ug/kg	
95-48-7	2-Methylphenol	ND	340	ug/kg	
	3&4-Methylphenol	ND	340	ug/kg	
88-75-5	2-Nitrophenol	ND	340	ug/kg	
100-02-7	4-Nitrophenol	ND	860	ug/kg	
87-86-5	Pentachlorophenol	ND	860	ug/kg	
108-95-2	Phenol	ND	340	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	340	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	340	ug/kg	
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	340	ug/kg	
50-32-8	Benzo(a)pyrene	ND	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	340	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	340	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	340	ug/kg	
91-58-7	2-Chloronaphthalene	ND	340	ug/kg	
106-47-8	4-Chloroaniline	ND	340	ug/kg	
86-74-8	Carbazole	ND	340	ug/kg	
218-01-9	Chrysene	ND	340	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	340	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	340	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	340	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	340	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	340	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	340	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	97.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	340	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	340	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	340	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	690	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	ug/kg	
132-64-9	Dibenzofuran	ND	340	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	340	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	340	ug/kg	
84-66-2	Diethyl phthalate	ND	340	ug/kg	
131-11-3	Dimethyl phthalate	ND	340	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	178	340	ug/kg	J
206-44-0	Fluoranthene	ND	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
118-74-1	Hexachlorobenzene	ND	340	ug/kg	
87-68-3	Hexachlorobutadiene	ND	340	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	ug/kg	
67-72-1	Hexachloroethane	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	ug/kg	
78-59-1	Isophorone	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg	
88-74-4	2-Nitroaniline	ND	340	ug/kg	
99-09-2	3-Nitroaniline	ND	340	ug/kg	
100-01-6	4-Nitroaniline	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
98-95-3	Nitrobenzene	ND	340	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	340	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	340	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		36-129%
4165-62-2	Phenol-d5	59%		38-135%
118-79-6	2,4,6-Tribromophenol	62%		37-144%
4165-60-0	Nitrobenzene-d5	58%		36-135%
321-60-8	2-Fluorobiphenyl	68%		44-135%
1718-51-0	Terphenyl-d14	86%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	97.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00963.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
		Percent Solids:	97.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	92.8
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010837.D	1	02/01/01	NAF	n/a	n/a	VH267
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	53	ug/kg	
71-43-2	Benzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	ug/kg	
75-25-2	Bromoform	ND	5.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	ug/kg	
74-87-3	Methyl chloride	ND	5.3	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	92.8
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	98%		53-158%
17060-07-0	1,2-Dichloroethane-D4	101%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.8
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006389.D	1	02/02/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	92.8
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	435	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		36-129%
4165-62-2	Phenol-d5	58%		38-135%
118-79-6	2,4,6-Tribromophenol	70%		37-144%
4165-60-0	Nitrobenzene-d5	58%		36-135%
321-60-8	2-Fluorobiphenyl	65%		44-135%
1718-51-0	Terphenyl-d14	80%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	92.8
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00964.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	12.4	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
		Percent Solids:	92.8
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	2.1 B	10.9	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	94.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010798.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	94.4
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	97%		53-158%
17060-07-0	1,2-Dichloroethane-D4	98%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	94.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006390.D	1	02/02/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	880	ug/kg	
95-57-8	2-Chlorophenol	ND	350	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	350	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	880	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	880	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	ug/kg	
95-48-7	2-Methylphenol	ND	350	ug/kg	
	3&4-Methylphenol	ND	350	ug/kg	
88-75-5	2-Nitrophenol	ND	350	ug/kg	
100-02-7	4-Nitrophenol	ND	880	ug/kg	
87-86-5	Pentachlorophenol	ND	880	ug/kg	
108-95-2	Phenol	ND	350	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg	
83-32-9	Acenaphthene	ND	350	ug/kg	
208-96-8	Acenaphthylene	ND	350	ug/kg	
120-12-7	Anthracene	ND	350	ug/kg	
56-55-3	Benzo(a)anthracene	ND	350	ug/kg	
50-32-8	Benzo(a)pyrene	ND	350	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	350	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	350	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	350	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	ug/kg	
100-51-6	Benzyl Alcohol	ND	350	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	ug/kg	
106-47-8	4-Chloroaniline	ND	350	ug/kg	
86-74-8	Carbazole	ND	350	ug/kg	
218-01-9	Chrysene	ND	350	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	94.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	350	ug/kg	
132-64-9	Dibenzofuran	ND	350	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg	
84-66-2	Diethyl phthalate	ND	350	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	214	350	ug/kg	J
206-44-0	Fluoranthene	ND	350	ug/kg	
86-73-7	Fluorene	ND	350	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	ug/kg	
87-68-3	Hexachlorobutadiene	ND	350	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg	
67-72-1	Hexachloroethane	ND	350	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	350	ug/kg	
78-59-1	Isophorone	ND	350	ug/kg	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg	
88-74-4	2-Nitroaniline	ND	350	ug/kg	
99-09-2	3-Nitroaniline	ND	350	ug/kg	
100-01-6	4-Nitroaniline	ND	350	ug/kg	
91-20-3	Naphthalene	ND	350	ug/kg	
98-95-3	Nitrobenzene	ND	350	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	350	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg	
85-01-8	Phenanthrene	ND	350	ug/kg	
129-00-0	Pyrene	ND	350	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		36-129%
4165-62-2	Phenol-d5	54%		38-135%
118-79-6	2,4,6-Tribromophenol	70%		37-144%
4165-60-0	Nitrobenzene-d5	53%		36-135%
321-60-8	2-Fluorobiphenyl	59%		44-135%
1718-51-0	Terphenyl-d14	82%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	94.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00965.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	Date Sampled:	01/26/01
Matrix:	SO - Solid	Date Received:	01/29/01
		Percent Solids:	94.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.7	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	Date Sampled:	01/24/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	94.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010799.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	Date Sampled:	01/24/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	94.2
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	99%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	Date Sampled:	01/24/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	94.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006391.D	1	02/03/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	880	ug/kg	
95-57-8	2-Chlorophenol	ND	350	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	350	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	880	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	880	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	ug/kg	
95-48-7	2-Methylphenol	ND	350	ug/kg	
	3&4-Methylphenol	ND	350	ug/kg	
88-75-5	2-Nitrophenol	ND	350	ug/kg	
100-02-7	4-Nitrophenol	ND	880	ug/kg	
87-86-5	Pentachlorophenol	ND	880	ug/kg	
108-95-2	Phenol	ND	350	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg	
83-32-9	Acenaphthene	ND	350	ug/kg	
208-96-8	Acenaphthylene	ND	350	ug/kg	
120-12-7	Anthracene	ND	350	ug/kg	
56-55-3	Benzo(a)anthracene	ND	350	ug/kg	
50-32-8	Benzo(a)pyrene	ND	350	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	350	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	350	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	350	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	ug/kg	
100-51-6	Benzyl Alcohol	ND	350	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	ug/kg	
106-47-8	4-Chloroaniline	ND	350	ug/kg	
86-74-8	Carbazole	ND	350	ug/kg	
218-01-9	Chrysene	ND	350	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	Date Sampled:	01/24/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	94.2
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	350	ug/kg	
132-64-9	Dibenzofuran	ND	350	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg	
84-66-2	Diethyl phthalate	ND	350	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	375	350	ug/kg	
206-44-0	Fluoranthene	ND	350	ug/kg	
86-73-7	Fluorene	ND	350	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	ug/kg	
87-68-3	Hexachlorobutadiene	ND	350	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg	
67-72-1	Hexachloroethane	ND	350	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	350	ug/kg	
78-59-1	Isophorone	ND	350	ug/kg	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg	
88-74-4	2-Nitroaniline	ND	350	ug/kg	
99-09-2	3-Nitroaniline	ND	350	ug/kg	
100-01-6	4-Nitroaniline	ND	350	ug/kg	
91-20-3	Naphthalene	ND	350	ug/kg	
98-95-3	Nitrobenzene	ND	350	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	350	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg	
85-01-8	Phenanthrene	ND	350	ug/kg	
129-00-0	Pyrene	ND	350	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		36-129%
4165-62-2	Phenol-d5	61%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	62%		36-135%
321-60-8	2-Fluorobiphenyl	69%		44-135%
1718-51-0	Terphenyl-d14	95%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	Date Sampled:	01/24/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	94.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00966.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		40-140%

ND = Not detected
RL = *Reporting Limit*
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	Date Sampled:	01/24/01
Matrix:	SO - Solid	Date Received:	01/29/01
		Percent Solids:	94.2
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	10.8	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	93.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010800.D	50	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2600	ug/kg	
71-43-2	Benzene	ND	260	ug/kg	
75-27-4	Bromodichloromethane	ND	260	ug/kg	
75-25-2	Bromoform	ND	260	ug/kg	
108-90-7	Chlorobenzene	ND	260	ug/kg	
75-00-3	Chloroethane	ND	260	ug/kg	
67-66-3	Chloroform	ND	260	ug/kg	
75-15-0	Carbon disulfide	ND	520	ug/kg	
56-23-5	Carbon tetrachloride	ND	260	ug/kg	
75-34-3	1,1-Dichloroethane	ND	260	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	260	ug/kg	
107-06-2	1,2-Dichloroethane	ND	260	ug/kg	
78-87-5	1,2-Dichloropropane	ND	260	ug/kg	
124-48-1	Dibromochloromethane	ND	260	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	260	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	260	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	260	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	260	ug/kg	
100-41-4	Ethylbenzene	ND	260	ug/kg	
591-78-6	2-Hexanone	ND	520	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	520	ug/kg	
74-83-9	Methyl bromide	ND	260	ug/kg	
74-87-3	Methyl chloride	ND	260	ug/kg	
75-09-2	Methylene chloride	ND	520	ug/kg	
78-93-3	Methyl ethyl ketone	290	520	ug/kg	J
100-42-5	Styrene	ND	260	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	260	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	260	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	260	ug/kg	
127-18-4	Tetrachloroethylene	ND	260	ug/kg	
108-88-3	Toluene	ND	260	ug/kg	
79-01-6	Trichloroethylene	ND	260	ug/kg	
75-01-4	Vinyl chloride	ND	260	ug/kg	
1330-20-7	Xylene (total)	ND	770	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	93.5
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	94%		53-158%
17060-07-0	1,2-Dichloroethane-D4	96%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006392.D	1	02/03/01	ME	01/31/01	OP2655	SL382
Run #2	W003810.D	1	02/05/01	ME	02/02/01	OP2655	SW221

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND [a]	890	ug/kg	
95-57-8	2-Chlorophenol	ND [a]	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND [a]	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND [a]	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND [a]	890	ug/kg	
51-28-5	2,4-Dinitrophenol	ND [a]	890	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND [a]	710	ug/kg	
95-48-7	2-Methylphenol	ND [a]	360	ug/kg	
	3&4-Methylphenol	ND [a]	360	ug/kg	
88-75-5	2-Nitrophenol	ND [a]	360	ug/kg	
100-02-7	4-Nitrophenol	ND [a]	890	ug/kg	
87-86-5	Pentachlorophenol	ND [a]	890	ug/kg	
108-95-2	Phenol	ND [a]	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND [a]	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND [a]	360	ug/kg	
83-32-9	Acenaphthene	ND [a]	360	ug/kg	
208-96-8	Acenaphthylene	ND [a]	360	ug/kg	
120-12-7	Anthracene	ND [a]	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND [a]	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND [a]	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND [a]	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND [a]	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND [a]	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND [a]	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND [a]	360	ug/kg	
100-51-6	Benzyl Alcohol	ND [a]	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND [a]	360	ug/kg	
106-47-8	4-Chloroaniline	ND [a]	360	ug/kg	
86-74-8	Carbazole	ND [a]	360	ug/kg	
218-01-9	Chrysene	ND [a]	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND [a]	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND [a]	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND [a]	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND [a]	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND [a]	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND [a]	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.5
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND [a]	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND [a]	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND [a]	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND [a]	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND [a]	360	ug/kg	
132-64-9	Dibenzofuran	ND [a]	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND [a]	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND [a]	360	ug/kg	
84-66-2	Diethyl phthalate	ND [a]	360	ug/kg	
131-11-3	Dimethyl phthalate	ND [a]	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND [a]	360	ug/kg	
206-44-0	Fluoranthene	ND [a]	360	ug/kg	
86-73-7	Fluorene	ND [a]	360	ug/kg	
118-74-1	Hexachlorobenzene	ND [a]	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND [a]	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND [a]	360	ug/kg	
67-72-1	Hexachloroethane	ND [a]	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND [a]	360	ug/kg	
78-59-1	Isophorone	ND [a]	360	ug/kg	
91-57-6	2-Methylnaphthalene	1850 [a]	360	ug/kg	
88-74-4	2-Nitroaniline	ND [a]	360	ug/kg	
99-09-2	3-Nitroaniline	ND [a]	360	ug/kg	
100-01-6	4-Nitroaniline	ND [a]	360	ug/kg	
91-20-3	Naphthalene	266 [a]	360	ug/kg	J
98-95-3	Nitrobenzene	ND [a]	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND [a]	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND [a]	360	ug/kg	
85-01-8	Phenanthrene	226 [a]	360	ug/kg	J
129-00-0	Pyrene	ND [a]	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND [a]	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% [b]	3% [b]	36-129%
4165-62-2	Phenol-d5	12% [b]	18% [b]	38-135%
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	37-144%
4165-60-0	Nitrobenzene-d5	81%	84%	36-135%
321-60-8	2-Fluorobiphenyl	91%	82%	44-135%
1718-51-0	Terphenyl-d14	75%	85%	42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	*SO - Solid*	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.5
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Result is from Run# 2
(b) Confirmed by re-extraction and reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	93.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01019.D	10	02/06/01	SKW	01/31/01	OP2658	GZF47
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	503	89	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
		Percent Solids:	93.5
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.16 U	13.5	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	93.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010801.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	23.4	53	ug/kg	J
71-43-2	Benzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	ug/kg	
75-25-2	Bromoform	ND	5.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	ug/kg	
74-87-3	Methyl chloride	ND	5.3	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8260B	Percent Solids:	93.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	99%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006393.D	1	02/03/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8270C SW846 3550B	Percent Solids:	93.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	251	360	ug/kg	J
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		36-129%
4165-62-2	Phenol-d5	55%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	56%		36-135%
321-60-8	2-Fluorobiphenyl	63%		44-135%
1718-51-0	Terphenyl-d14	84%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
Method:	SW846 8015 M SW846 3550B	Percent Solids:	93.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00968.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	11.8	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	Date Sampled:	01/25/01
Matrix:	SO - Solid	Date Received:	01/29/01
		Percent Solids:	93.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	24.0	10.6	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

SECTION 2

CASE NARRATIVE
GC/MS Volatile Analysis

Laboratory Reference No. F8826

Client/Project: AMEC/CTO 299 – Red Hill Bulk Fuel Storage

I. **RECEIPT**
The samples were received via DHL Worldwide Express on January 29, 2001.

II. **HOLDING TIMES**
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. **METHOD**
Preparation: SW-846 5030A
Analysis: SW-846 8260B

IV. **PREPARATION**
Samples were prepared as received. Soil samples were received without EnCore samples and were therefore analyzed using method 5030A.

V. **ANALYSIS**
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The MS and MSD in sample F8754-2 for vinyl chloride was slightly high (147% and 135% vs 131%). None was reported in the samples and the LCS was acceptable. The MSD was high in sample F8856-2 (for sample F8826-3) for 1,1-Dichloroethylene, Methyl Bromide, and Trichloroethylene. The MS and MSD were slightly high for vinyl chloride as was the LCS. None was reported in the sample.
D. Samples: Sample F8826-3 required a dilution due to a matrix interference (non-target analytes were present above the calibration range).

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: David H. Greer Jr. Date: 02/13/01

David H. Greer, Jr.
Quality Assurance Officer

CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F8826

Client/Project: AMEC/CTO 229 – Red Hill Bulk Fuel Storage

I. RECEIPT

The samples were received via DHL Worldwide Express on January 29, 2001.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3550B

Analysis: SW-846 8270C

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): The MS (F8793-7) was found to be slightly below the acceptance limits for several analytes, which were not found in the samples. The MS and MSD were found to be slightly below the criteria for hexachloroethane (57% and 60% vs 61%) and RPD was slightly high for pyrene also not found in any samples. The LCS (blank spike) was found to be acceptable for all compounds except 2-methylnaphthalene which was not found in the samples.

D. Samples: Sample F8826-6 was found to have low surrogates: 2-Fluorophenol, Phenol-d5 and 2,4,6-Tribromophenol. This sample was reextracted and the same surrogates were confirmed low. The reextracted sample is reported.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: David H. Greer Date: 02/13/01

David H. Greer, Jr.
Quality Assurance Officer

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F8826

Client/Project: AMEC/CTO 229 – Red Hill Bulk Fuel Storage

I. **RECEIPT**
The samples were received via DHL Worldwide Express on January 29, 2001.

II. **HOLDING TIMES**
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. **METHOD**
Preparation: SW-846 3550B
Analysis: SW-846 8015 M

IV. **PREPARATION**
Sample preparation proceeded normally.

V. **ANALYSIS**
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: David H. Greer Jr. Date: 02/13/01
David H. Greer, Jr.
Quality Assurance Officer

CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8826

Client/Project: AMEC/CTO 229 – Red Hill Bulk Fuel Storage

I. **RECEIPT**
The samples were received via DHL Worldwide Express on January 29, 2001.

II. **HOLDING TIMES**
A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. **METHOD**
Preparation: SW-846 3050B
Analysis: SW-846 6010B (Lead Only)

IV. **PREPARATION**
Sample preparation proceeded normally.

V. **ANALYSIS**
A. Calibration: All acceptance criteria were met.
B. Blanks: All acceptance criteria were met.
C. Spikes (Matrix Spike, Matrix Spike Duplicate, and LCS): All acceptance criteria were met.
D. Duplicates: All acceptance criteria were met.
E. Serial Dilutions: The serial dilution was found to be slightly high, but acceptable due to low initial sample concentration (< 50 times the IDL).
F. Samples: Sample analyses proceeded normally.

I certify that this data package is in compliance with the terms and conditions agreed to by Accutest Laboratories Southeast, Inc. and by the client, both technically and for completeness, except for 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:

Signed: David H. Greer Date: 02/13/01
David H. Greer, Jr.
Quality Assurance Officer

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F8826

Client/Project: Ogden Env. / Red Hill Fuel Storage

Date/Time Received: 1-29-01 10:00

Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery (Other) DHL

Air Bill Number: 8103264400 / 8103264411

Cooler Temperatures: 3.8 / 4.2

Custody Seals Intact?	(YES)	NO
Chain Of Custody Provided?	(YES)	NO
Chain Of Custody Match Bottles?	(YES)	NO
Sample Labels Present?	(YES)	NO
Are All Bottles Unbroken?	(YES)	NO
Proper Preservative?	(YES)	NO
Correct Containers Used?	(YES)	NO
Sufficient Sample Volume?	(YES)	NO

Number of Encores: Ø

COMMENTS:

Signature: [signature] Date: 1-29-01

SECTION 3

TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

9.4	Initial and Continuing Calibration	MET.04
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9.12	Sequence Run Log Summary	MET.12
9.13	Raw Data	MET.13

ACCUTEST

CHAIN OF CUSTODY

4405 VINELAND RD SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: E8826
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Ogden Environmental + Energy Services, Inc.
ADDRESS: 2904 Westcorp Blvd., Suite 107
CITY, STATE, ZIP: Huntsville, AL 35805
SEND REPORT TO: Kent Evetts
PHONE #: (256) 539-3016

FACILITY INFORMATION

Red Hill Bulk Fuel Storage
PROJECT NAME: Oahu, HI
LOCATION: 1-1019-0229
PROJECT NO.:
FAX #: (256) 539-3074

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	NONE	Ice	VOC CLP OLM Ø3.2	SVOC CLP OLM Ø3.2	Lead CLP ILM Ø4.Ø	TPH as Fuel 8Ø15 B	LAB USE ONLY
1	Trip Blank	--	--	--	LIQ						X	X	X				
	~~Temp Blank~~	--	--	--	LIQ						X	X					
2	RH-BR-5-SØ3	1/26/01	02:27	GLG/JLD	SOL						X	X	X	X	X	X	
3	RH-BR-5-SØ4	1/26/01	16:18	GLG/JLD	SOL						X	X	X	X	X	X	
4	RH-BR-5-SØ5	1/26/01	16:48	GLG/JLD	SOL						X	X	X	X	X	X	

DATA TURNAROUND INFORMATION

☐ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER ______

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) ______

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	1/26/01 @ 17:32	1.	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐ ON ICE ☐	TEMPERATURE 3.8 C

ACCUTEST

CHAIN OF CUSTODY

4405 VINELAND • SUITE C-15
ORLANDO 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: F8826

ACCUTEST QUOTE #:

CLIENT INFORMATION

Ogden Environmental & Energy Services Inc.
NAME
2904 Westcorp Blvd., Suite 107
ADDRESS
Huntsville, AL 35805
CITY, STATE ZIP
Kent Eveths
SEND REPORT TO:
PHONE # (256) 539-3016

FACILITY INFORMATION

Red Hill Bulk Fuel Storage
PROJECT NAME
Oahu, HI
LOCATION
1-1019-0229
PROJECT NO.
FAX # (256) 539-3074

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION Approx TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	4°C	VOC CLP OLM 03.2	SVOC CLP OLM 03.2	Lead CLP ILM 04.0	TPH as Fuel 8015 B
	~~Trip Blank~~	—	—	—	LIQ						X	X	X			
	~~Temp Blank~~	—	—	—	LIQ						X	X				
5	RH-BR-6-S04	1/24/01	11:08	GLG	SOL						X	X	X	X	X	X
6	RH-BR-5-S01	1/25/01	09:05	GLG/JLD	SOL						X	X	X	X	X	X
7	RH-BR-5-S02	1/25/01	10:14	GLG	SOL						X	X	X	X	X	X

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

DATA TURNAROUND INFORMATION

☐ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER _____

APPROVED BY: _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	1/25/01 14:45	1.	2.		2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3C		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑
5.		5.			TEMPERATURE 4.2 C

CHAIN OF CUSTODY

ACCUTEST
4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Accutest Labs

ADDRESS: 4405 Vineland Rd C-15

CITY: Orlando STATE: FL ZIP: 32811

SEND REPORT TO:

PHONE #:

FACILITY INFORMATION

PROJECT NAME: F8826

LOCATION:

PROJECT NO.:

FAX #:

ANALYTICAL INFORMATION

Please Email

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE
	F8826-2	1/26/01		AMEC	SOL	1					X
	F8826-3					1					X
	F8826-4					1					X
	F8826-5	1/24/01				1					X
	F8826-6	1/25/01				1					X
	F8826-7					1					X

DATA TURNAROUND INFORMATION

☒ STANDARD
☐ 48 HOUR RUSH
☐ 24 HOUR EMERGENCY
☐ OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☒ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Universal

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
Mike Lovell	1/29/01 1344	1.	2.		2.
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE C

SECTION 4

ACCUTEST.

Sample Summary

Ogden Environmental

Job No: F8826

CTO 229
Project No: 1-1019-0229

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F8826-1	01/26/01	00:00	GLG	01/29/01	AQ	Trip Blank Soil	TRIP BLANK
F8826-2	01/26/01	08:27	GLG	01/29/01	SO	Solid	RH-BR-5-S03
F8826-3	01/26/01	16:18	GLG	01/29/01	SO	Solid	RH-BR-5-S04
F8826-4	01/26/01	16:48	GLG	01/29/01	SO	Solid	RH-BR-5-S05
F8826-5	01/24/01	11:08	GLG	01/29/01	SO	Solid	RH-BR-6-S04
F8826-6	01/25/01	09:05	GLG	01/29/01	SO	Solid	RH-BR-5-S01
F8826-7	01/25/01	10:14	GLG	01/29/01	SO	Solid	RH-BR-5-S02

ACCUTEST.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8826-1	**Date Sampled:**	01/26/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002365.D	1	01/31/01	JG	n/a	n/a	VC107
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F8826-1	**Date Sampled:**	01/26/01
Matrix:	AQ - Trip Blank Soil	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	97.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010796.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/kg	
71-43-2	Benzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	5.0	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	97.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	98%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006388.D	1	02/02/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	860	ug/kg	
95-57-8	2-Chlorophenol	ND	340	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	340	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	340	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	860	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	860	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	ug/kg	
95-48-7	2-Methylphenol	ND	340	ug/kg	
	3&4-Methylphenol	ND	340	ug/kg	
88-75-5	2-Nitrophenol	ND	340	ug/kg	
100-02-7	4-Nitrophenol	ND	860	ug/kg	
87-86-5	Pentachlorophenol	ND	860	ug/kg	
108-95-2	Phenol	ND	340	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	340	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	340	ug/kg	
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo(a)anthracene	ND	340	ug/kg	
50-32-8	Benzo(a)pyrene	ND	340	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	340	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	340	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	340	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	340	ug/kg	
100-51-6	Benzyl Alcohol	ND	340	ug/kg	
91-58-7	2-Chloronaphthalene	ND	340	ug/kg	
106-47-8	4-Chloroaniline	ND	340	ug/kg	
86-74-8	Carbazole	ND	340	ug/kg	
218-01-9	Chrysene	ND	340	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	340	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	340	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	340	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	340	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	340	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	340	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	*RH-BR-5-S03*		
Lab Sample ID:	F8826-2	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	97.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	340	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	340	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	340	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	690	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	340	ug/kg	
132-64-9	Dibenzofuran	ND	340	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	340	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	340	ug/kg	
84-66-2	Diethyl phthalate	ND	340	ug/kg	
131-11-3	Dimethyl phthalate	ND	340	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	178	340	ug/kg	J
206-44-0	Fluoranthene	ND	340	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
118-74-1	Hexachlorobenzene	ND	340	ug/kg	
87-68-3	Hexachlorobutadiene	ND	340	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	ug/kg	
67-72-1	Hexachloroethane	ND	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	340	ug/kg	
78-59-1	Isophorone	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg	
88-74-4	2-Nitroaniline	ND	340	ug/kg	
99-09-2	3-Nitroaniline	ND	340	ug/kg	
100-01-6	4-Nitroaniline	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
98-95-3	Nitrobenzene	ND	340	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	340	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	340	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	340	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		36-129%
4165-62-2	Phenol-d5	59%		38-135%
118-79-6	2,4,6-Tribromophenol	62%		37-144%
4165-60-0	Nitrobenzene-d5	58%		36-135%
321-60-8	2-Fluorobiphenyl	68%		44-135%
1718-51-0	Terphenyl-d14	86%		42-149%

ND = Not detected
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Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	97.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00963.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		40-140%

ND = Not detected
RL = Reporting Limit
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S03		
Lab Sample ID:	F8826-2	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
		Percent Solids:	97.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.4	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	92.8
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010837.D	1	02/01/01	NAF	n/a	n/a	VH267
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	53	ug/kg	
71-43-2	Benzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	ug/kg	
75-25-2	Bromoform	ND	5.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	ug/kg	
74-87-3	Methyl chloride	ND	5.3	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	92.8
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	98%		53-158%
17060-07-0	1,2-Dichloroethane-D4	101%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	92.8
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006389.D	1	02/02/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	92.8
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	435	360	ug/kg	
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		36-129%
4165-62-2	Phenol-d5	58%		38-135%
118-79-6	2,4,6-Tribromophenol	70%		37-144%
4165-60-0	Nitrobenzene-d5	58%		36-135%
321-60-8	2-Fluorobiphenyl	65%		44-135%
1718-51-0	Terphenyl-d14	80%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	92.8
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00964.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	12.4	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S04		
Lab Sample ID:	F8826-3	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
		Percent Solids:	92.8
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	2.1 B	10.9	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	94.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010798.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	94.4
Project:	*CTO 229*		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	97%		53-158%
17060-07-0	1,2-Dichloroethane-D4	98%		71-122%

(a) Sample introduction performed using method *5030A*.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006390.D	1	02/02/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	880	ug/kg	
95-57-8	2-Chlorophenol	ND	350	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	350	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	880	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	880	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	ug/kg	
95-48-7	2-Methylphenol	ND	350	ug/kg	
	3&4-Methylphenol	ND	350	ug/kg	
88-75-5	2-Nitrophenol	ND	350	ug/kg	
100-02-7	4-Nitrophenol	ND	880	ug/kg	
87-86-5	Pentachlorophenol	ND	880	ug/kg	
108-95-2	Phenol	ND	350	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg	
83-32-9	Acenaphthene	ND	350	ug/kg	
208-96-8	Acenaphthylene	ND	350	ug/kg	
120-12-7	Anthracene	ND	350	ug/kg	
56-55-3	Benzo(a)anthracene	ND	350	ug/kg	
50-32-8	Benzo(a)pyrene	ND	350	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	350	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	350	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	350	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	ug/kg	
100-51-6	Benzyl Alcohol	ND	350	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	ug/kg	
106-47-8	4-Chloroaniline	ND	350	ug/kg	
86-74-8	Carbazole	ND	350	ug/kg	
218-01-9	Chrysene	ND	350	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.4
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	350	ug/kg	
132-64-9	Dibenzofuran	ND	350	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg	
84-66-2	Diethyl phthalate	ND	350	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	214	350	ug/kg	J
206-44-0	Fluoranthene	ND	350	ug/kg	
86-73-7	Fluorene	ND	350	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	ug/kg	
87-68-3	Hexachlorobutadiene	ND	350	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg	
67-72-1	Hexachloroethane	ND	350	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	350	ug/kg	
78-59-1	Isophorone	ND	350	ug/kg	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg	
88-74-4	2-Nitroaniline	ND	350	ug/kg	
99-09-2	3-Nitroaniline	ND	350	ug/kg	
100-01-6	4-Nitroaniline	ND	350	ug/kg	
91-20-3	Naphthalene	ND	350	ug/kg	
98-95-3	Nitrobenzene	ND	350	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	350	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg	
85-01-8	Phenanthrene	ND	350	ug/kg	
129-00-0	Pyrene	ND	350	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		36-129%
4165-62-2	Phenol-d5	54%		38-135%
118-79-6	2,4,6-Tribromophenol	70%		37-144%
4165-60-0	Nitrobenzene-d5	53%		36-135%
321-60-8	2-Fluorobiphenyl	59%		44-135%
1718-51-0	Terphenyl-d14	82%		42-149%

ND = Not detected
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	94.4
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00965.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%

ND = *Not detected*
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S05		
Lab Sample ID:	F8826-4	**Date Sampled:**	01/26/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
		Percent Solids:	94.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.12 U	10.7	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	**Date Sampled:**	01/24/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010799.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	**Date Sampled:**	01/24/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	99%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	**Date Sampled:**	01/24/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	94.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006391.D	1	02/03/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	880	ug/kg	
95-57-8	2-Chlorophenol	ND	350	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	350	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	350	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	880	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	880	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	ug/kg	
95-48-7	2-Methylphenol	ND	350	ug/kg	
	3&4-Methylphenol	ND	350	ug/kg	
88-75-5	2-Nitrophenol	ND	350	ug/kg	
100-02-7	4-Nitrophenol	ND	880	ug/kg	
87-86-5	Pentachlorophenol	ND	880	ug/kg	
108-95-2	Phenol	ND	350	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	350	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	350	ug/kg	
83-32-9	Acenaphthene	ND	350	ug/kg	
208-96-8	Acenaphthylene	ND	350	ug/kg	
120-12-7	Anthracene	ND	350	ug/kg	
56-55-3	Benzo(a)anthracene	ND	350	ug/kg	
50-32-8	Benzo(a)pyrene	ND	350	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	350	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	350	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	350	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	350	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	350	ug/kg	
100-51-6	Benzyl Alcohol	ND	350	ug/kg	
91-58-7	2-Chloronaphthalene	ND	350	ug/kg	
106-47-8	4-Chloroaniline	ND	350	ug/kg	
86-74-8	Carbazole	ND	350	ug/kg	
218-01-9	Chrysene	ND	350	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	350	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	350	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	350	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	350	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	350	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	350	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	**Date Sampled:**	01/24/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	*SW846 8270C SW846 3550B*	***Percent Solids:***	94.2
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	350	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	350	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	350	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	350	ug/kg	
132-64-9	Dibenzofuran	ND	350	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	350	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	350	ug/kg	
84-66-2	Diethyl phthalate	ND	350	ug/kg	
131-11-3	Dimethyl phthalate	ND	350	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	375	350	ug/kg	
206-44-0	Fluoranthene	ND	350	ug/kg	
86-73-7	Fluorene	ND	350	ug/kg	
118-74-1	Hexachlorobenzene	ND	350	ug/kg	
87-68-3	Hexachlorobutadiene	ND	350	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	ug/kg	
67-72-1	Hexachloroethane	ND	350	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	350	ug/kg	
78-59-1	Isophorone	ND	350	ug/kg	
91-57-6	2-Methylnaphthalene	ND	350	ug/kg	
88-74-4	2-Nitroaniline	ND	350	ug/kg	
99-09-2	3-Nitroaniline	ND	350	ug/kg	
100-01-6	4-Nitroaniline	ND	350	ug/kg	
91-20-3	Naphthalene	ND	350	ug/kg	
98-95-3	Nitrobenzene	ND	350	ug/kg	
621-64-7	*N-Nitroso-di-n-propylamine*	ND	350	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	350	ug/kg	
85-01-8	Phenanthrene	ND	350	ug/kg	
129-00-0	Pyrene	ND	350	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	350	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		36-129%
4165-62-2	Phenol-d5	61%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	62%		36-135%
321-60-8	2-Fluorobiphenyl	69%		44-135%
1718-51-0	Terphenyl-d14	95%		42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-6-S04		
Lab Sample ID:	F8826-5	**Date Sampled:**	01/24/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	94.2
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00966.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-6-S04			
Lab Sample ID:	F8826-5		**Date Sampled:**	01/24/01
Matrix:	SO - Solid		**Date Received:**	01/29/01
			Percent Solids:	94.2
Project:	CTO 229			

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.13 U	10.8	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	93.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010800.D	50	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2600	ug/kg	
71-43-2	Benzene	ND	260	ug/kg	
75-27-4	Bromodichloromethane	ND	260	ug/kg	
75-25-2	Bromoform	ND	260	ug/kg	
108-90-7	Chlorobenzene	ND	260	ug/kg	
75-00-3	Chloroethane	ND	260	ug/kg	
67-66-3	Chloroform	ND	260	ug/kg	
75-15-0	Carbon disulfide	ND	520	ug/kg	
56-23-5	Carbon tetrachloride	ND	260	ug/kg	
75-34-3	1,1-Dichloroethane	ND	260	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	260	ug/kg	
107-06-2	1,2-Dichloroethane	ND	260	ug/kg	
78-87-5	1,2-Dichloropropane	ND	260	ug/kg	
124-48-1	Dibromochloromethane	ND	260	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	260	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	260	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	260	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	260	ug/kg	
100-41-4	Ethylbenzene	ND	260	ug/kg	
591-78-6	2-Hexanone	ND	520	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	520	ug/kg	
74-83-9	Methyl bromide	ND	260	ug/kg	
74-87-3	Methyl chloride	ND	260	ug/kg	
75-09-2	Methylene chloride	ND	520	ug/kg	
78-93-3	Methyl ethyl ketone	290	520	ug/kg	J
100-42-5	Styrene	ND	260	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	260	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	260	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	260	ug/kg	
127-18-4	Tetrachloroethylene	ND	260	ug/kg	
108-88-3	Toluene	ND	260	ug/kg	
79-01-6	Trichloroethylene	ND	260	ug/kg	
75-01-4	Vinyl chloride	ND	260	ug/kg	
1330-20-7	Xylene (total)	ND	770	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	93.5
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	94%		53-158%
17060-07-0	1,2-Dichloroethane-D4	96%		71-122%

(a) Dilution required due to matrix interference (non-target analytes present above calibration range). Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006392.D	1	02/03/01	ME	01/31/01	OP2655	SL382
Run #2	W003810.D	1	02/05/01	ME	02/02/01	OP2655	SW221

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND [a]	890	ug/kg	
95-57-8	2-Chlorophenol	ND [a]	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND [a]	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND [a]	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND [a]	890	ug/kg	
51-28-5	2,4-Dinitrophenol	ND [a]	890	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND [a]	710	ug/kg	
95-48-7	2-Methylphenol	ND [a]	360	ug/kg	
	3&4-Methylphenol	ND [a]	360	ug/kg	
88-75-5	2-Nitrophenol	ND [a]	360	ug/kg	
100-02-7	4-Nitrophenol	ND [a]	890	ug/kg	
87-86-5	Pentachlorophenol	ND [a]	890	ug/kg	
108-95-2	Phenol	ND [a]	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND [a]	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND [a]	360	ug/kg	
83-32-9	Acenaphthene	ND [a]	360	ug/kg	
208-96-8	Acenaphthylene	ND [a]	360	ug/kg	
120-12-7	Anthracene	ND [a]	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND [a]	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND [a]	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND [a]	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND [a]	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND [a]	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND [a]	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND [a]	360	ug/kg	
100-51-6	Benzyl Alcohol	ND [a]	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND [a]	360	ug/kg	
106-47-8	4-Chloroaniline	ND [a]	360	ug/kg	
86-74-8	Carbazole	ND [a]	360	ug/kg	
218-01-9	Chrysene	ND [a]	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND [a]	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND [a]	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND [a]	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND [a]	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND [a]	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND [a]	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.5
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND [a]	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND [a]	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND [a]	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND [a]	710	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND [a]	360	ug/kg	
132-64-9	Dibenzofuran	ND [a]	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND [a]	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND [a]	360	ug/kg	
84-66-2	Diethyl phthalate	ND [a]	360	ug/kg	
131-11-3	Dimethyl phthalate	ND [a]	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND [a]	360	ug/kg	
206-44-0	Fluoranthene	ND [a]	360	ug/kg	
86-73-7	Fluorene	ND [a]	360	ug/kg	
118-74-1	Hexachlorobenzene	ND [a]	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND [a]	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND [a]	360	ug/kg	
67-72-1	Hexachloroethane	ND [a]	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND [a]	360	ug/kg	
78-59-1	Isophorone	ND [a]	360	ug/kg	
91-57-6	2-Methylnaphthalene	1850 [a]	360	ug/kg	
88-74-4	2-Nitroaniline	ND [a]	360	ug/kg	
99-09-2	3-Nitroaniline	ND [a]	360	ug/kg	
100-01-6	4-Nitroaniline	ND [a]	360	ug/kg	
91-20-3	Naphthalene	266 [a]	360	ug/kg	J
98-95-3	Nitrobenzene	ND [a]	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND [a]	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND [a]	360	ug/kg	
85-01-8	Phenanthrene	226 [a]	360	ug/kg	J
129-00-0	Pyrene	ND [a]	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND [a]	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	1% [b]	3% [b]	36-129%
4165-62-2	Phenol-d5	12% [b]	18% [b]	38-135%
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	37-144%
4165-60-0	Nitrobenzene-d5	81%	84%	36-135%
321-60-8	2-Fluorobiphenyl	91%	82%	44-135%
1718-51-0	Terphenyl-d14	75%	85%	42-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.5
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q

(a) Result is from Run# 2
(b) Confirmed by re-extraction and reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	93.5
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01019.D	10	02/06/01	SKW	01/31/01	OP2658	GZF47
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	503	89	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S01		
Lab Sample ID:	F8826-6	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
		Percent Solids:	93.5
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	0.16 U	13.5	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	93.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	H010801.D	1	01/30/01	NAF	n/a	n/a	VH264
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	23.4	53	ug/kg	J
71-43-2	Benzene	ND	5.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	ug/kg	
75-25-2	Bromoform	ND	5.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	ug/kg	
75-00-3	Chloroethane	ND	5.3	ug/kg	
67-66-3	Chloroform	ND	5.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	ug/kg	
74-87-3	Methyl chloride	ND	5.3	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
100-42-5	Styrene	ND	5.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	ug/kg	
108-88-3	Toluene	ND	5.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8260B	**Percent Solids:**	93.1
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	100%		53-158%
17060-07-0	1,2-Dichloroethane-D4	99%		71-122%

(a) Sample introduction performed using method 5030A.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006393.D	1	02/03/01	ME	01/31/01	OP2655	SL382
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	900	ug/kg	
95-57-8	2-Chlorophenol	ND	360	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	360	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	360	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	900	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	720	ug/kg	
95-48-7	2-Methylphenol	ND	360	ug/kg	
	3&4-Methylphenol	ND	360	ug/kg	
88-75-5	2-Nitrophenol	ND	360	ug/kg	
100-02-7	4-Nitrophenol	ND	900	ug/kg	
87-86-5	Pentachlorophenol	ND	900	ug/kg	
108-95-2	Phenol	ND	360	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	360	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	360	ug/kg	
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo(a)anthracene	ND	360	ug/kg	
50-32-8	Benzo(a)pyrene	ND	360	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	360	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	360	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	360	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	360	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	360	ug/kg	
91-58-7	2-Chloronaphthalene	ND	360	ug/kg	
106-47-8	4-Chloroaniline	ND	360	ug/kg	
86-74-8	Carbazole	ND	360	ug/kg	
218-01-9	Chrysene	ND	360	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	360	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	360	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	360	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	360	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	360	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	360	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	93.1
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	360	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	360	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	360	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	720	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg	
132-64-9	Dibenzofuran	ND	360	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	ug/kg	
84-66-2	Diethyl phthalate	ND	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	251	360	ug/kg	J
206-44-0	Fluoranthene	ND	360	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
118-74-1	Hexachlorobenzene	ND	360	ug/kg	
87-68-3	Hexachlorobutadiene	ND	360	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	ug/kg	
67-72-1	Hexachloroethane	ND	360	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	
78-59-1	Isophorone	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
88-74-4	2-Nitroaniline	ND	360	ug/kg	
99-09-2	3-Nitroaniline	ND	360	ug/kg	
100-01-6	4-Nitroaniline	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
98-95-3	Nitrobenzene	ND	360	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	360	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	ND	360	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	360	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		36-129%
4165-62-2	Phenol-d5	55%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	56%		36-135%
321-60-8	2-Fluorobiphenyl	63%		44-135%
1718-51-0	Terphenyl-d14	84%		42-149%

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Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	93.1
Project:	CTO 229		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00968.D	1	02/01/01	NJ	01/31/01	OP2658	GZF44
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	11.8	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		40-140%

ND = Not detected
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RH-BR-5-S02		
Lab Sample ID:	F8826-7	**Date Sampled:**	01/25/01
Matrix:	SO - Solid	**Date Received:**	01/29/01
		Percent Solids:	93.1
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Lead	24.0	10.6	mg/kg	1	02/02/01	02/05/01	JK	SW846 6010B

RL = Reporting Limit

SECTION 5