



**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 III OF III
(FINAL)**

**FOR
FLEET INDUSTRIAL SUPPLY CENTER
(FISC)
OAHU, HAWAII**

HDOH FACILITY ID NO. UNASSIGNED

Fac. ID: 9-102271

Rel. ID: 990051, 010011, 020028

AUGUST 2002

II of II



Fac. ID: 9-102271
 Rel. IS: 990051, 010011, 020028

Report of Analysis

Client Sample ID: RH-BR-17-D02	Date Sampled: 11/10/00
Lab Sample ID: F8109-4	Date Received: 11/13/00
Matrix: SO - Solid	Percent Solids: 79.1
Method: SW846 3550B/8270C	
Project: CTO 229	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	L005637.D	1	11/19/00	ME	11/18/00	OP2330	SL341

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1000	ug/kg	
95-57-8	2-Chlorophenol	ND	420	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	420	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	420	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	840	ug/kg	
95-48-7	2-Methylphenol	ND	420	ug/kg	
	3&4-Methylphenol	ND	420	ug/kg	
88-75-5	2-Nitrophenol	ND	420	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	ug/kg	
108-95-2	Phenol	ND	420	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	420	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	420	ug/kg	
83-32-9	Acenaphthene	ND	420	ug/kg	
208-96-8	Acenaphthylene	ND	420	ug/kg	
120-12-7	Anthracene	ND	420	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	420	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	ug/kg	
100-51-6	Benzyl Alcohol	ND	420	ug/kg	
91-58-7	2-Chloronaphthalene	ND	420	ug/kg	
106-47-8	4-Chloroaniline	ND	420	ug/kg	
86-74-8	Carbazole	ND	420	ug/kg	
218-01-9	Chrysene	ND	420	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	420	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	420	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	420	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	420	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	420	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	420	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-17-D02
 Lab Sample ID: F8109-4
 Matrix: SO - Solid
 Method: SW846 3550B/8270C
 Project: CTO 229

Date Sampled: 11/10/00
 Date Received: 11/13/00
 Percent Solids: 79.1

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	420	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	420	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	420	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	840	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	ug/kg	
132-64-9	Dibenzofuran	ND	420	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	ug/kg	
84-66-2	Diethyl phthalate	ND	420	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	133	420	ug/kg	J
206-44-0	Fluoranthene	ND	420	ug/kg	
86-73-7	Fluorene	ND	420	ug/kg	
118-74-1	Hexachlorobenzene	ND	420	ug/kg	
87-68-3	Hexachlorobutadiene	ND	420	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	420	ug/kg	
67-72-1	Hexachloroethane	ND	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	ug/kg	
78-59-1	Isophorone	ND	420	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	ug/kg	
88-74-4	2-Nitroaniline	ND	420	ug/kg	
99-09-2	3-Nitroaniline	ND	420	ug/kg	
100-01-6	4-Nitroaniline	ND	420	ug/kg	
91-20-3	Naphthalene	ND	420	ug/kg	
98-95-3	Nitrobenzene	ND	420	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	420	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	420	ug/kg	
85-01-8	Phenanthrene	ND	420	ug/kg	
129-00-0	Pyrene	ND	420	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		36-129%
4165-62-2	Phenol-d5	80%		38-135%
118-79-6	2,4,6-Tribromophenol	91%		37-144%
4165-60-0	Nitrobenzene-d5	75%		36-135%
321-60-8	2-Fluorobiphenyl	80%		44-135%
1718-51-0	Terphenyl-d14	98%		42-149%

ND = Not detected
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 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: RH-BR-17-D02	Date Sampled: 11/10/00
Lab Sample ID: F8109-4	Date Received: 11/13/00
Matrix: SO - Solid	Percent Solids: 79.1
Method: SW846 8015 M	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00375.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	10	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



Client Sample ID: RH-BR-17-D02	Date Sampled: 11/10/00
Lab Sample ID: F8109-4	Date Received: 11/13/00
Matrix: SO - Solid	Percent Solids: 79.1
Project: CTO 229	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.14 U	11.8	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit

SECTION 5



CHAIN OF CUSTODY

ACCUTEST JOB #: F 8109
ACCUTEST QUOTE #:

4405 VINELAND RD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODES	
NAME: <u>OGDEN Environmental</u> ADDRESS: <u>2904 Westgate Blvd Suite 107</u> <u>Huntsville AL 35805</u> CITY, STATE, ZIP		PROJECT NAME: <u>Red Hill Belle Fied</u> LOCATION: <u>Onley, Hi</u> PROJECT NO.: <u>1-1019-0229</u> FAX #: <u>256-539-3074</u>		RC CR and 3.2 SVC CR and 03.2 PH 8015 B as field CR and 04.0 Temp		DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE LIQ - OTHER LIQUID SOL - OTHER SOLID	
SEND REPORT TO: <u>256-539-3016</u> PHONE #		COLLECTION DATE TIME SAMPLED BY:		PRESERVATION NONE NONE NONE NONE NONE		LAB USE ONLY	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY:	MATRIX	BOTTLES	KE
	RH-BR-17-S01	11/10/00	0905	ALW	SOL 3	3	X
	RH-BE-17-S02	11/10/00	1045	ALW	SOL 3	3	X
	RH-BR-17-S03	11/10/00	1250	ALW	SOL 3	3	X
	RH-BR-17-D02	11/10/00	-	ALW	SOL 3	3	X
	Trip blank	-	-	-	W 1	1	X
	Temp blank	-	-	-	W 1	1	X
DATA TURNAROUND INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____		COMMENTS/REMARKS			
APPROVED BY: _____ DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY			
RELINQUISHED BY: <u>1. [Signature]</u> DATE TIME: <u>11/10/00/1730</u>		RELINQUISHED BY: <u>2. [Signature]</u> DATE TIME: <u>11/10/00/1130</u>		RECEIVED BY: _____ DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____	
RELINQUISHED BY: <u>3. [Signature]</u> DATE TIME: _____		RELINQUISHED BY: <u>4. [Signature]</u> DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____	
RELINQUISHED BY: <u>5. [Signature]</u> DATE TIME: _____		RELINQUISHED BY: _____ DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____	
SEAL # _____		PRESERVE WHERE APPLICABLE <input type="checkbox"/>		ON ICE <input type="checkbox"/>		TEMPERATURE <u>27</u> C	

TANK 18

Technical Report for**Ogden Environmental****CTO 229****1-1019-0229/Red Hill Bulk Fuel Storage****Accutest Job Number: F8107****Report to:**

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

ATTN: Kent Evetts**Total number of pages in report: 392**

David H. Behzadi, for
**Harry Behzadi, Ph.D.
Laboratory Director**

Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

ACCUTEST LABORATORIES SOUTHEAST

SAMPLE RECEIPT CONFIRMATION

Accutest Job No.: F8107

Client/Project: Ogden

Date/Time Received: 11/13/00 11:00

Method of Delivery: Fed Ex Greyhound Courier Other DHL

Air Bill No.: 8103264396

Custody Seal Intact? YES NO

Chain-of-Custody Provided? YES NO

COC Match Bottles? YES NO

Sample Labels Present? YES NO

Cooler Temperature 2.0

Bottles Broken? YES NO

Proper Preservative? YES NO

Correct Containers Used? YES NO

Sufficient Sample Volume? YES NO

Number of Encores?: _____

Comments: _____

Signature: JH Brown Date: 11/13

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job No.: F8107

Client/Project: Ogden

Date/Time Received: 11/13/00 11:00

Method of Delivery: Fed Ex Greyhound Courier Other DHL

Air Bill No.: 8103264396

Custody Seal Intact? YES NO

Chain-of-Custody Provided? YES NO

COC Match Bottles? YES NO

Sample Labels Present? YES NO

Cooler Temperature 2.0

Bottles Broken? YES NO

Proper Preservative? YES NO

Correct Containers Used? YES NO

Sufficient Sample Volume? YES NO

Number of Encores?: _____

Comments: _____

Signature: J.H. Brown Date: 11/13



CHAIN OF CUSTODY

ACCUTEST JOB #: **FB107**
 ACCUTEST QUOTE #:

4405 VINELAND ROAD • SUITE C-15
 ORLANDO, FL 32811
 TEL: 407-425-6700 • FAX: 407-425-0707

CLIENT INFORMATION

NAME: **OGDEN Environmental**
 ADDRESS: **2804 Westcrop Blvd**
Huntsville AL 35895
 CITY: STATE: ZIP

PHONE #: **256-539-3016**

FACILITY INFORMATION

PROJECT NAME: **Red Hill Bulk Fuel Storage**
 LOCATION: **Datta, HI**
 PROJECT NO.: **1-1019-0229**
 FAX #: **256-539-3074**

ANALYTICAL INFORMATION

VOC **CP dmo3.2**
 SVOC **CP dmo3.2**
 TPH **PA5 B ast**
 Lead **CP Ilmolo**
 temp.

MATRIX CODES

- DW - DRINKING WATER
- GW - GROUND WATER
- WW - WASTE WATER
- SW - WASTE WATER
- SO - SOIL
- LI - LIQUID
- LO - OTHER LIQUID
- SL - OTHER SOLID

ACCUTEST SAMPLE

FIELD ID / POINT OF COLLECTION
1 RT-BE-18-S01
2 RT-BE-18-S02
3 RT-BE-18-S03
4 RT-BE-18-D01
5 trip blank temp blank

COLLECTION

DATE	TIME	SAMPLED BY	REL. #	FIELD #	PRESERVATION
11-6-00	1015	ALW	3	3	X
11-6-00	1350	ALW	3	3	X
11-6-00	1720	ALW	3	3	X
11-6-00	-	ALW	3	3	X
-	-	-	-	-	X
-	-	-	-	-	X
-	-	-	-	-	X

DATA TURNAROUND INFORMATION

STANDARD
 48 HOUR RUSH
 24 HOUR EMERGENCY
 OTHER

DATA DELIVERABLE INFORMATION

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

COMMENTS/REMARKS

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

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

RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:
1. <i>[Signature]</i>	11/7/00 0830	1. <i>[Signature]</i>		2. <i>[Signature]</i>		2. <i>[Signature]</i>	
3. <i>[Signature]</i>		3. <i>[Signature]</i>		4. <i>[Signature]</i>		4. <i>[Signature]</i>	
5. <i>[Signature]</i>		5. <i>[Signature]</i>					

PRESERVE WHERE APPLICABLE

ON *[Signature]* TEMPERATURE *[Signature]* °C

Sample Summary

Ogden Environmental

Job No: F8107

CTO 229

Project No: 1-1019-0229/Red Hill Bulk Fuel Storage

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F8107-1	11/06/00	10:15 AW	11/11/00	SO	Solid	RH-BR-18-S01
F8107-2	11/06/00	13:50 AW	11/11/00	SO	Solid	RH-BR-18-S02
F8107-3	11/06/00	17:20 AW	11/11/00	SO	Solid	RH-BR-18-S03
F8107-4	11/06/00	00:00 AW	11/11/00	SO	Solid	RH-BR-18-S04
F8107-5	11/06/00	00:00 AW	11/11/00	AQ	Trip Blank Soil	TRIP-BLANK

Report of Analysis

Client Sample ID: RH-BR-18-S01	Date Sampled: 11/06/00
Lab Sample ID: F8107-1	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 79.5
Method: SW846 8260B	
Project: CTO 229	

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	H009962.D	1	11/14/00	NAF	n/a	n/a	VH218

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	64	ug/kg	
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
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RH-BR-18-S01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-1	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	79.5
Method:	SW846 8260B		
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	101%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		71-122%

(a) Sample introduction performed using method 5030A.

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Report of Analysis

Client Sample ID:	RH-BR-18-S01		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-1		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	79.5	
Method:	SW846 3550B/8270C				
Project:	CTO 229				

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	L005628.D	1	11/19/00	ME	11/18/00	OP2330	SL341

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1000	ug/kg	
95-57-8	2-Chlorophenol	ND	420	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	420	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	420	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	840	ug/kg	
95-48-7	2-Methylphenol	ND	420	ug/kg	
	3&4-Methylphenol	ND	420	ug/kg	
88-75-5	2-Nitrophenol	ND	420	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	ug/kg	
108-95-2	Phenol	ND	420	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	420	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	420	ug/kg	
83-32-9	Acenaphthene	ND	420	ug/kg	
208-96-8	Acenaphthylene	ND	420	ug/kg	
120-12-7	Anthracene	ND	420	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	420	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	ug/kg	
100-51-6	Benzyl Alcohol	ND	420	ug/kg	
91-58-7	2-Chloronaphthalene	ND	420	ug/kg	
106-47-8	4-Chloroaniline	ND	420	ug/kg	
86-74-8	Carbazole	ND	420	ug/kg	
218-01-9	Chrysene	ND	420	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	420	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	420	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	420	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	420	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	420	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	420	ug/kg	

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Report of Analysis

Client Sample ID:	RH-BR-18-S01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-1	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	79.5
Method:	SW846 3550B/8270C		
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	420	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	420	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	420	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	840	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	ug/kg	
132-64-9	Dibenzofuran	ND	420	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	ug/kg	
84-66-2	Diethyl phthalate	ND	420	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	ug/kg	
206-44-0	Fluoranthene	ND	420	ug/kg	
86-73-7	Fluorene	ND	420	ug/kg	
118-74-1	Hexachlorobenzene	ND	420	ug/kg	
87-68-3	Hexachlorobutadiene	ND	420	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	420	ug/kg	
67-72-1	Hexachloroethane	ND	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	ug/kg	
78-59-1	Isophorone	ND	420	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	ug/kg	
88-74-4	2-Nitroaniline	ND	420	ug/kg	
99-09-2	3-Nitroaniline	ND	420	ug/kg	
100-01-6	4-Nitroaniline	ND	420	ug/kg	
91-20-3	Naphthalene	ND	420	ug/kg	
98-95-3	Nitrobenzene	ND	420	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	420	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	420	ug/kg	
85-01-8	Phenanthrene	ND	420	ug/kg	
129-00-0	Pyrene	ND	420	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		36-129%
4165-62-2	Phenol-d5	96%		38-135%
118-79-6	2,4,6-Tribromophenol	96%		37-144%
4165-60-0	Nitrobenzene-d5	94%		36-135%
321-60-8	2-Fluorobiphenyl	93%		44-135%
1718-51-0	Terphenyl-d14	102%		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

Page 1 of 1

Client Sample ID:	RH-BR-18-S01		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-1		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	79.5	
Method:	SW846 8015 M				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00365.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	10	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-18-S01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-1	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	79.5
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.4	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-18-S02		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-2		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	87.6	
Method:	SW846 8260B				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 *	H009963.D	1	11/14/00	NAF	n/a	n/a	VH218
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-18-S02	Date Sampled:	11/06/00
Lab Sample ID:	F8107-2	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	87.6
Method:	SW846 8260B		
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	98%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		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-18-S02	Date Sampled:	11/06/00
Lab Sample ID:	F8107-2	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	87.6
Method:	SW846 3550B/8270C		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L005629.D	1	11/19/00	ME	11/18/00	OP2330	SL341
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-18-S02	Date Sampled:	11/06/00
Lab Sample ID:	F8107-2	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	87.6
Method:	SW846 3550B/8270C		
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	930	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	89%		36-129%
4165-62-2	Phenol-d5	96%		38-135%
118-79-6	2,4,6-Tribromophenol	97%		37-144%
4165-60-0	Nitrobenzene-d5	93%		36-135%
321-60-8	2-Fluorobiphenyl	94%		44-135%
1718-51-0	Terphenyl-d14	102%		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-18-S02		Date Sampled:	11/06/00
Lab Sample ID:	F8107-2		Date Received:	11/11/00
Matrix:	SO - Solid		Percent Solids:	87.6
Method:	SW846 8015 M			
Project:	CTO 229			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00366.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
84-15-1	o-Terphenyl	98%		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-18-S02	Date Sampled:	11/06/00
Lab Sample ID:	F8107-2	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	87.6
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.55 B	10.9	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 8260B		
Project:	CTO 229		

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	H009964.D	1	11/14/00	NAF	n/a	n/a	VH218

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	5.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	ug/kg	
75-25-2	Bromoform	ND	5.6	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	5.6	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	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	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	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	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	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-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 8260B		
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	98%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		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-18-S03		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-3		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	84.3	
Method:	SW846 3550B/8270C				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L005630.D	1	11/19/00	ME	11/18/00	OP2330	SL341
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	990	ug/kg	
95-57-8	2-Chlorophenol	ND	400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	990	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	ug/kg	
95-48-7	2-Methylphenol	ND	400	ug/kg	
	3&4-Methylphenol	ND	400	ug/kg	
88-75-5	2-Nitrophenol	ND	400	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	990	ug/kg	
108-95-2	Phenol	ND	400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	ug/kg	
83-32-9	Acenaphthene	ND	400	ug/kg	
208-96-8	Acenaphthylene	ND	400	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	ug/kg	
100-51-6	Benzyl Alcohol	ND	400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	400	ug/kg	
106-47-8	4-Chloroaniline	ND	400	ug/kg	
86-74-8	Carbazole	ND	400	ug/kg	
218-01-9	Chrysene	ND	400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	400	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-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 3550B/8270C		
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	790	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	400	ug/kg	
132-64-9	Dibenzofuran	ND	400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	ug/kg	
84-66-2	Diethyl phthalate	ND	400	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	419	400	ug/kg	
206-44-0	Fluoranthene	ND	400	ug/kg	
86-73-7	Fluorene	ND	400	ug/kg	
118-74-1	Hexachlorobenzene	ND	400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	ug/kg	
67-72-1	Hexachloroethane	ND	400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	
78-59-1	Isophorone	ND	400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	400	ug/kg	
88-74-4	2-Nitroaniline	ND	400	ug/kg	
99-09-2	3-Nitroaniline	ND	400	ug/kg	
100-01-6	4-Nitroaniline	ND	400	ug/kg	
91-20-3	Naphthalene	ND	400	ug/kg	
98-95-3	Nitrobenzene	ND	400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	400	ug/kg	
85-01-8	Phenanthrene	ND	400	ug/kg	
129-00-0	Pyrene	ND	400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		36-129%
4165-62-2	Phenol-d5	97%		38-135%
118-79-6	2,4,6-Tribromophenol	101%		37-144%
4165-60-0	Nitrobenzene-d5	92%		36-135%
321-60-8	2-Fluorobiphenyl	95%		44-135%
1718-51-0	Terphenyl-d14	104%		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-18-S03		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-3		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	84.3	
Method:	SW846 8015 M				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00367.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.9	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-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.1	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID: RH-BR-18-D01
 Lab Sample ID: F8107-4
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 11/06/00
 Date Received: 11/11/00
 Percent Solids: 81.9

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H009965.D	1	11/14/00	NAF	n/a	n/a	VH218
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	62	ug/kg	
71-43-2	Benzene	ND	6.2	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	ug/kg	
75-25-2	Bromoform	ND	6.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	ug/kg	
75-00-3	Chloroethane	ND	6.2	ug/kg	
67-66-3	Chloroform	ND	6.2	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	ug/kg	
100-41-4	Ethylbenzene	ND	6.2	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	6.2	ug/kg	
74-87-3	Methyl chloride	ND	6.2	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	6.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.2	ug/kg	
108-88-3	Toluene	17.7	6.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.2	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	ug/kg	
1330-20-7	Xylene (total)	ND	18	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-18-D01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-4	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	81.9
Method:	SW846 8260B		
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	100%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	105%		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-18-D01		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-4		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	81.9	
Method:	SW846 3550B/8270C				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L005631.D	1	11/19/00	ME	11/18/00	OP2330	SL341
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1000	ug/kg	
95-57-8	2-Chlorophenol	ND	410	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	410	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	410	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	810	ug/kg	
95-48-7	2-Methylphenol	ND	410	ug/kg	
	3&4-Methylphenol	ND	410	ug/kg	
88-75-5	2-Nitrophenol	ND	410	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	ug/kg	
108-95-2	Phenol	ND	410	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	410	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	410	ug/kg	
83-32-9	Acenaphthene	ND	410	ug/kg	
208-96-8	Acenaphthylene	ND	410	ug/kg	
120-12-7	Anthracene	ND	410	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	410	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	ug/kg	
100-51-6	Benzyl Alcohol	ND	410	ug/kg	
91-58-7	2-Chloronaphthalene	ND	410	ug/kg	
106-47-8	4-Chloroaniline	ND	410	ug/kg	
86-74-8	Carbazole	ND	410	ug/kg	
218-01-9	Chrysene	ND	410	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	410	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	410	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	410	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	410	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	410	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	410	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-18-D01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-4	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	81.9
Method:	SW846 3550B/8270C		
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	410	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	410	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	410	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	810	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	ug/kg	
132-64-9	Dibenzofuran	ND	410	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	ug/kg	
84-66-2	Diethyl phthalate	ND	410	ug/kg	
131-11-3	Dimethyl phthalate	ND	410	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	ug/kg	
206-44-0	Fluoranthene	ND	410	ug/kg	
86-73-7	Fluorene	ND	410	ug/kg	
118-74-1	Hexachlorobenzene	ND	410	ug/kg	
87-68-3	Hexachlorobutadiene	ND	410	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	410	ug/kg	
67-72-1	Hexachloroethane	ND	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	
78-59-1	Isophorone	ND	410	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	ug/kg	
88-74-4	2-Nitroaniline	ND	410	ug/kg	
99-09-2	3-Nitroaniline	ND	410	ug/kg	
100-01-6	4-Nitroaniline	ND	410	ug/kg	
91-20-3	Naphthalene	ND	410	ug/kg	
98-95-3	Nitrobenzene	ND	410	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	410	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	410	ug/kg	
85-01-8	Phenanthrene	ND	410	ug/kg	
129-00-0	Pyrene	ND	410	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	410	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		36-129%
4165-62-2	Phenol-d5	96%		38-135%
118-79-6	2,4,6-Tribromophenol	96%		37-144%
4165-60-0	Nitrobenzene-d5	92%		36-135%
321-60-8	2-Fluorobiphenyl	93%		44-135%
1718-51-0	Terphenyl-d14	101%		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

Page 1 of 1

Client Sample ID:	RH-BR-18-D01		Date Sampled:	11/06/00	
Lab Sample ID:	F8107-4		Date Received:	11/11/00	
Matrix:	SO - Solid		Percent Solids:	81.9	
Method:	SW846 8015 M				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00368.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
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	TPH (C10-C28)	ND	10	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	96%		40-140%
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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-18-D01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-4	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	81.9
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.14 U	12.1	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	11/06/00
Lab Sample ID:	F8107-5	Date Received:	11/11/00
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0001353.D	1	11/16/00	JG	n/a	n/a	VC60
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	Date Sampled:	11/06/00
Lab Sample ID:	F8107-5	Date Received:	11/11/00
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		69-128%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		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

SECTION 2



**CASE NARRATIVE
GC/MS Volatile Analysis**

Laboratory Reference No. F8107

Client/Project: Ogden Environmental/ Red Hill Bulk Fuel Storage - CTO 229

I. RECEIPT

The samples were received via DHL on November 11, 2000. The samples were processed using SW-846 procedures rather than the CLP methodology noted on the Chain-of-Custody.

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

Sample preparation was accomplished using method 5030A rather than 5035 due to the core samples which were collected.

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 MSD for Bromoform was slightly below the acceptance criteria (61% vs 62%). The LCS (Blank Spike) was within the acceptance criteria.
- 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: David H. Greer, Jr. Date: 11/30/00
David H. Greer, Jr.
Quality Assurance Officer



CASE NARRATIVE
GC/MS Semivolatile Analysis

Laboratory Reference No. F8107

Client/Project: Ogden Environmental/ Red Hill Bulk Fuel Storage - CTO 229

I. RECEIPT

The samples were received via DHL on November 11, 2000. The samples were processed using SW-846 procedures rather than the CLP methodology noted on the Chain-of-Custody.

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 was outside the limits for 4-Chloroaniline (25% vs 12%) and 3-Nitroaniline (32% vs 18%). The MS and MSD recoveries for these analytes was within the acceptance limits. The Laboratory Control Spike (LCS) was acceptable.

D. Samples: Sample analyses proceeded normally, except that sample F8109-1 had to be diluted 1:4 due to a matrix effect (hydrocarbons).

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: 11/30/00
David H. Greer, Jr.
Quality Assurance Officer



CASE NARRATIVE
GC TPH (C10-C28) Analysis

Laboratory Reference No. F8107

Client/Project: Ogden Environmental/ Red Hill Bulk Fuel Storage - CTO 229

I. RECEIPT

The samples were received via DHL on November 11, 2000. The samples were processed using SW-846 procedures rather than the CLP methodology noted on the Chain-of-Custody.

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 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, Jr. Date: 11/30/00
David H. Greer, Jr.
Quality Assurance Officer



CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8107

Client/Project: Ogden Environmental/Red Hill Bulk Fuel Storage - CTO 229

I. RECEIPT

The samples were received via DHL on November 11, 2000. The samples were processed using SW-846 procedures rather than the CLP methodology noted on the Chain-of-Custody

II. HOLDING TIMES

- A. Sample Preparation: All holding times were met.
- B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: 3050B

Analysis: 6010B (Lead only)

IV. PREPARATION

Sample preparation was performed on a fraction of the sample collected due to the rock (lava) structure of the sample.

V. ANALYSIS

- A. Calibration: All acceptance criteria were met.
- B. Blanks: All acceptance criteria were met.
- C. Spikes (Matrix Spike and LCS): All acceptance criteria were met.
- D. Duplicates: All acceptance criteria were met.
- E. Serial Dilutions: The Serial Dilution was outside the control limits (35.6% vs 10%).
- 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, Jr. Date: 11/30/00
David H. Greer, Jr.
Quality Assurance Officer

Accutest Laboratories Southeast
Case Narrative

Job (SDG) No.: F8107

Samples: 1-5

Analysis Performed: 8260, 8270, 8015M, metals

1) Sample Receipt Conformance / Non-Conformance Summary

Custody Seals on Coolers?	Yes (✓)	No ()
Custody Seals in Tact?	Yes (✓)	No ()
Chain of Custody Sealed in Plastic?	Yes (✓)	No ()
Chain of Custody Filled out Properly?	Yes (✓)	No ()
Enough ice and Packing material?	Yes (✓)	No ()
All Bottles Sealed?	Yes (✓)	No ()
Any Bottles Broken?	Yes ()	No (✓)
Labels in good condition?	Yes (✓)	No ()
Labels agree with chain of custody?	Yes (✓)	No ()
Correct Containers Used?	Yes (✓)	No ()
Preserved Properly?	Yes (✓)	No ()
Sufficient Sample?	Yes (✓)	No ()

Comments: _____

SECTION 3



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SECTION 4



Sample Summary

Ogden Environmental

Job No: F8107

CTO 229

Project No: 1-1019-0229/Red Hill Bulk Fuel Storage

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F8107-1	11/06/00	10:15 AW	11/11/00	SO	Solid	RH-BR-18-S01
F8107-2	11/06/00	13:50 AW	11/11/00	SO	Solid	RH-BR-18-S02
F8107-3	11/06/00	17:20 AW	11/11/00	SO	Solid	RH-BR-18-S03
F8107-4	11/06/00	00:00 AW	11/11/00	SO	Solid	RH-BR-18-D01
F8107-5	11/06/00	00:00 AW	11/11/00	AQ	Trip Blank Soil	TRIP BLANK



Report of Analysis

Client Sample ID: RH-BR-18-S01	Date Sampled: 11/06/00
Lab Sample ID: F8107-1	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 79.5
Method: SW846 8260B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H009962.D	1	11/14/00	NAF	n/a	n/a	VH218
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	64	ug/kg	
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-18-S01	Date Sampled: 11/06/00
Lab Sample ID: F8107-1	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 79.5
Method: SW846 8260B	
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	101%		73-128%
460-00-4	4-Bromofluorobenzene	99%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		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-18-S01 Lab Sample ID: F8107-1 Matrix: SO - Solid Method: SW846 3550B/8270C Project: CTO 229	Date Sampled: 11/06/00 Date Received: 11/11/00 Percent Solids: 79.5
--	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L005628.D	1	11/19/00	ME	11/18/00	OP2330	SL341
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1000	ug/kg	
95-57-8	2-Chlorophenol	ND	420	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	420	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	420	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	840	ug/kg	
95-48-7	2-Methylphenol	ND	420	ug/kg	
	3&4-Methylphenol	ND	420	ug/kg	
88-75-5	2-Nitrophenol	ND	420	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	ug/kg	
108-95-2	Phenol	ND	420	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	420	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	420	ug/kg	
83-32-9	Acenaphthene	ND	420	ug/kg	
208-96-8	Acenaphthylene	ND	420	ug/kg	
120-12-7	Anthracene	ND	420	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	ug/kg	
50-32-8	Benzo(a)pyrene	ND	420	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	420	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	420	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	420	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	420	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	ug/kg	
100-51-6	Benzyl Alcohol	ND	420	ug/kg	
91-58-7	2-Chloronaphthalene	ND	420	ug/kg	
106-47-8	4-Chloroaniline	ND	420	ug/kg	
86-74-8	Carbazole	ND	420	ug/kg	
218-01-9	Chrysene	ND	420	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	420	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	420	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	420	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	420	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	420	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	420	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-18-S01	Date Sampled: 11/06/00
Lab Sample ID: F8107-1	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 79.5
Method: SW846 3550B/8270C	
Project: CTO 229	

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	420	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	420	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	420	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	840	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	420	ug/kg	
132-64-9	Dibenzofuran	ND	420	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	ug/kg	
84-66-2	Diethyl phthalate	ND	420	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	ug/kg	
206-44-0	Fluoranthene	ND	420	ug/kg	
86-73-7	Fluorene	ND	420	ug/kg	
118-74-1	Hexachlorobenzene	ND	420	ug/kg	
87-68-3	Hexachlorobutadiene	ND	420	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	420	ug/kg	
67-72-1	Hexachloroethane	ND	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	420	ug/kg	
78-59-1	Isophorone	ND	420	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	ug/kg	
88-74-4	2-Nitroaniline	ND	420	ug/kg	
99-09-2	3-Nitroaniline	ND	420	ug/kg	
100-01-6	4-Nitroaniline	ND	420	ug/kg	
91-20-3	Naphthalene	ND	420	ug/kg	
98-95-3	Nitrobenzene	ND	420	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	420	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	420	ug/kg	
85-01-8	Phenanthrene	ND	420	ug/kg	
129-00-0	Pyrene	ND	420	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		36-129%
4165-62-2	Phenol-d5	96%		38-135%
118-79-6	2,4,6-Tribromophenol	96%		37-144%
4165-60-0	Nitrobenzene-d5	94%		36-135%
321-60-8	2-Fluorobiphenyl	93%		44-135%
1718-51-0	Terphenyl-d14	102%		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-18-S01	Date Sampled: 11/06/00
Lab Sample ID: F8107-1	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 79.5
Method: SW846 8015 M	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00365.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	10	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-18-S01	Date Sampled: 11/06/00
Lab Sample ID: F8107-1	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 79.5
Project: CTO 229	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.4	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit



Report of Analysis

Client Sample ID:	RH-BR-18-S02	Date Sampled:	11/06/00
Lab Sample ID:	F8107-2	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	87.6
Method:	SW846 8260B		
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	98%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		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

Client Sample ID: RH-BR-18-S02
 Lab Sample ID: F8107-2
 Matrix: SO - Solid
 Method: SW846 3550B/8270C
 Project: CTO 229

Date Sampled: 11/06/00
 Date Received: 11/11/00
 Percent Solids: 87.6

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	L005629.D	1	11/19/00	ME	11/18/00	OP2330	SL341

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

Client Sample ID: RH-BR-18-S02
 Lab Sample ID: F8107-2
 Matrix: SO - Solid
 Method: SW846 3550B/8270C
 Project: CTO 229

Date Sampled: 11/06/00
 Date Received: 11/11/00
 Percent Solids: 87.6

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	930	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	89%		36-129%
4165-62-2	Phenol-d5	96%		38-135%
118-79-6	2,4,6-Tribromophenol	97%		37-144%
4165-60-0	Nitrobenzene-d5	93%		36-135%
321-60-8	2-Fluorobiphenyl	94%		44-135%
1718-51-0	Terphenyl-d14	102%		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-18-S02	Date Sampled: 11/06/00
Lab Sample ID: F8107-2	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 87.6
Method: SW846 8015 M	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00366.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		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-18-S02	Date Sampled: 11/06/00
Lab Sample ID: F8107-2	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 87.6
Project: CTO 229	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.55 B	10.9	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit



ACCUTEST.

Report of Analysis

Client Sample ID:	RH-BR-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H009964.D	1	11/14/00	NAF	n/a	n/a	VH218
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	5.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	ug/kg	
75-25-2	Bromoform	ND	5.6	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	5.6	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	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	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	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	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	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-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 8260B		
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	98%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		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-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 3550B/8270C		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L005630.D	1	11/19/00	ME	11/18/00	OP2330	SL341
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	990	ug/kg	
95-57-8	2-Chlorophenol	ND	400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	990	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	ug/kg	
95-48-7	2-Methylphenol	ND	400	ug/kg	
	3&4-Methylphenol	ND	400	ug/kg	
88-75-5	2-Nitrophenol	ND	400	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	990	ug/kg	
108-95-2	Phenol	ND	400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	ug/kg	
83-32-9	Acenaphthene	ND	400	ug/kg	
208-96-8	Acenaphthylene	ND	400	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	ug/kg	
100-51-6	Benzyl Alcohol	ND	400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	400	ug/kg	
106-47-8	4-Chloroaniline	ND	400	ug/kg	
86-74-8	Carbazole	ND	400	ug/kg	
218-01-9	Chrysene	ND	400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	400	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-18-S03	Date Sampled:	11/06/00
Lab Sample ID:	F8107-3	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	84.3
Method:	SW846 3550B/8270C		
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	790	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	400	ug/kg	
132-64-9	Dibenzofuran	ND	400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	ug/kg	
84-66-2	Diethyl phthalate	ND	400	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	419	400	ug/kg	
206-44-0	Fluoranthene	ND	400	ug/kg	
86-73-7	Fluorene	ND	400	ug/kg	
118-74-1	Hexachlorobenzene	ND	400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	ug/kg	
67-72-1	Hexachloroethane	ND	400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	
78-59-1	Isophorone	ND	400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	400	ug/kg	
88-74-4	2-Nitroaniline	ND	400	ug/kg	
99-09-2	3-Nitroaniline	ND	400	ug/kg	
100-01-6	4-Nitroaniline	ND	400	ug/kg	
91-20-3	Naphthalene	ND	400	ug/kg	
98-95-3	Nitrobenzene	ND	400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	400	ug/kg	
85-01-8	Phenanthrene	ND	400	ug/kg	
129-00-0	Pyrene	ND	400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		36-129%
4165-62-2	Phenol-d5	97%		38-135%
118-79-6	2,4,6-Tribromophenol	101%		37-144%
4165-60-0	Nitrobenzene-d5	92%		36-135%
321-60-8	2-Fluorobiphenyl	95%		44-135%
1718-51-0	Terphenyl-d14	104%		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-18-S03	
Lab Sample ID: F8107-3	Date Sampled: 11/06/00
Matrix: SO - Solid	Date Received: 11/11/00
Method: SW846 8015 M	Percent Solids: 84.3
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00367.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.9	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



Client Sample ID: RH-BR-18-S03

Lab Sample ID: F8107-3

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 11/06/00

Date Received: 11/11/00

Percent Solids: 84.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.1	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit



Report of Analysis

Client Sample ID: RH-BR-18-D01	Date Sampled: 11/06/00
Lab Sample ID: F8107-4	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 81.9
Method: SW846 8260B	
Project: CTO 229	

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	H009965.D	1	11/14/00	NAF	n/a	n/a	VH218

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	62	ug/kg	
71-43-2	Benzene	ND	6.2	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	ug/kg	
75-25-2	Bromoform	ND	6.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	ug/kg	
75-00-3	Chloroethane	ND	6.2	ug/kg	
67-66-3	Chloroform	ND	6.2	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	ug/kg	
100-41-4	Ethylbenzene	ND	6.2	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	6.2	ug/kg	
74-87-3	Methyl chloride	ND	6.2	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	6.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.2	ug/kg	
108-88-3	Toluene	17.7	6.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.2	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	ug/kg	
1330-20-7	Xylene (total)	ND	18	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-18-D01	Date Sampled:	11/06/00
Lab Sample ID:	F8107-4	Date Received:	11/11/00
Matrix:	SO - Solid	Percent Solids:	81.9
Method:	SW846 8260B		
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	100%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	105%		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-18-D01	Date Sampled: 11/06/00
Lab Sample ID: F8107-4	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 81.9
Method: SW846 3550B/8270C	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L005631.D	1	11/19/00	ME	11/18/00	OP2330	SL341
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	1000	ug/kg	
95-57-8	2-Chlorophenol	ND	410	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	410	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	410	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	1000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	810	ug/kg	
95-48-7	2-Methylphenol	ND	410	ug/kg	
	3&4-Methylphenol	ND	410	ug/kg	
88-75-5	2-Nitrophenol	ND	410	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	ug/kg	
108-95-2	Phenol	ND	410	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	410	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	410	ug/kg	
83-32-9	Acenaphthene	ND	410	ug/kg	
208-96-8	Acenaphthylene	ND	410	ug/kg	
120-12-7	Anthracene	ND	410	ug/kg	
56-55-3	Benzo(a)anthracene	ND	410	ug/kg	
50-32-8	Benzo(a)pyrene	ND	410	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	410	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	410	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	410	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	410	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	ug/kg	
100-51-6	Benzyl Alcohol	ND	410	ug/kg	
91-58-7	2-Chloronaphthalene	ND	410	ug/kg	
106-47-8	4-Chloroaniline	ND	410	ug/kg	
86-74-8	Carbazole	ND	410	ug/kg	
218-01-9	Chrysene	ND	410	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	410	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	410	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	410	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	410	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	410	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	410	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-18-D01	Date Sampled: 11/06/00
Lab Sample ID: F8107-4	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 81.9
Method: SW846 3550B/8270C	
Project: CTO 229	

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	410	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	410	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	410	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	810	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	410	ug/kg	
132-64-9	Dibenzofuran	ND	410	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	ug/kg	
84-66-2	Diethyl phthalate	ND	410	ug/kg	
131-11-3	Dimethyl phthalate	ND	410	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	ug/kg	
206-44-0	Fluoranthene	ND	410	ug/kg	
86-73-7	Fluorene	ND	410	ug/kg	
118-74-1	Hexachlorobenzene	ND	410	ug/kg	
87-68-3	Hexachlorobutadiene	ND	410	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	410	ug/kg	
67-72-1	Hexachloroethane	ND	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	
78-59-1	Isophorone	ND	410	ug/kg	
91-57-6	2-Methylnaphthalene	ND	410	ug/kg	
88-74-4	2-Nitroaniline	ND	410	ug/kg	
99-09-2	3-Nitroaniline	ND	410	ug/kg	
100-01-6	4-Nitroaniline	ND	410	ug/kg	
91-20-3	Naphthalene	ND	410	ug/kg	
98-95-3	Nitrobenzene	ND	410	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	410	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	410	ug/kg	
85-01-8	Phenanthrene	ND	410	ug/kg	
129-00-0	Pyrene	ND	410	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	410	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		36-129%
4165-62-2	Phenol-d5	96%		38-135%
118-79-6	2,4,6-Tribromophenol	96%		37-144%
4165-60-0	Nitrobenzene-d5	92%		36-135%
321-60-8	2-Fluorobiphenyl	93%		44-135%
1718-51-0	Terphenyl-d14	101%		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-18-D01 Lab Sample ID: F8107-4 Matrix: SO - Solid Method: SW846 8015 M Project: CTO 229	Date Sampled: 11/06/00 Date Received: 11/11/00 Percent Solids: 81.9
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZFO0368.D	1	11/20/00	SKW	11/18/00	OP2325	GZF16
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		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



Client Sample ID: RH-BR-18-D01	Date Sampled: 11/06/00
Lab Sample ID: F8107-4	Date Received: 11/11/00
Matrix: SO - Solid	Percent Solids: 81.9
Project: CTO 229	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.14 U	12.1	mg/kg	1	11/14/00	11/15/00 JK	SW846 6010B

RL = Reporting Limit



Report of Analysis

Client Sample ID: TRIP BLANK	Date Sampled: 11/06/00
Lab Sample ID: F8107-5	Date Received: 11/11/00
Matrix: AQ - Trip Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0001353.D	1	11/16/00	JG	n/a	n/a	VC60
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



Client Sample ID: TRIP BLANK	Date Sampled: 11/06/00
Lab Sample ID: F8107-5	Date Received: 11/11/00
Matrix: AQ - Trip Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: CTO 229	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		69-128%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		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

SECTION 5

TANK 19

Technical Report for

Ogden Environmental**CTO 229****1-1019-0229 Red Hill Bulk Fuel****Accutest Job Number: F8233**

Report to:

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

ATTN: Kent Evetts

Total number of pages in report: 280
**Harry Behzadi, Ph.D.
Laboratory Director****Results relate only to the items tested.****This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.**

SECTION 2



CASE NARRATIVE
GC/MS Volatile Analysis

Laboratory Reference No. F8233

Client/Project: Ogden Environmental/CTO 299 – Red Hill Bulk Fuel

I. RECEIPT

The samples were received via DHL on November 27, 2000.

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. Sample F8233-1 was received without an EnCore sample and was therefore analyzed using method 5030A (i.e. a 5 gram sample was weighed into a volatile vial). This sample had to be diluted 1:50 prior to analysis due to high quantities of petroleum hydrocarbons in the sample.

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 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: David H. Greer, Jr. Date: 12/14/00
David H. Greer, Jr.
Quality Assurance Officer



CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F8233

Client/Project: Ogden Environmental/CTO 229 – Red Hill Bulk Fuel

I. RECEIPT

The samples were received via DHL on November 27, 2000.

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): Matrix spikes and matrix spike duplicates were performed on a sample not from this site and were outside the acceptance criteria for several analytes. The blank spike (LCS) was within the acceptance criteria.

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: David H. Greer, Jr. Date: 12/14/00
David H. Greer, Jr.
Quality Assurance Officer



CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F8233

Client/Project: Ogden Environmental/CTO 229 – Red Hill Bulk Fuel

I. RECEIPT

The samples were received via DHL on November 27, 2000.

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): The Matrix Spike and Matrix Spike Duplicate were outside the criteria for this sample due to the low level of spike compared to the sample concentration. The Blank Spike (LCS) was within the acceptance criteria for this sample.

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: David H. Greer, Jr. Date: 12/14/00
David H. Greer, Jr.
Quality Assurance Officer



CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F8233

Client/Project: Ogden Environmental/CTO 229 – Red Hill Bulk Fuel

I. RECEIPT

The samples were received via DHL on November 27, 2000.

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 acceptable due to low initial sample concentration (e.g. <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, Jr. Date: 12/14/00
David H. Greer, Jr.
Quality Assurance Officer

SECTION 3

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ACCUTEST.

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SECTION 4



Sample Summary

Ogden Environmental

Job No: F8233

CTO 229

Project No: 1-1019-0229 Red Hill Bulk Fuel

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	
F8233-1	11/22/00	16:05 AW	11/27/00	SO Solid	RH-BR-19-S01



Client Sample ID: RH-BR-19-S01
 Lab Sample ID: F8233-1
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 11/22/00
 Date Received: 11/27/00
 Percent Solids: 84.3

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H010076.D	50	11/27/00	NAF	n/a	n/a	VH223
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	174	270	ug/kg	J
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)	267	800	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

Client Sample ID: RH-BR-19-S01	
Lab Sample ID: F8233-1	Date Sampled: 11/22/00
Matrix: SO - Solid	Date Received: 11/27/00
Method: SW846 8260B	Percent Solids: 84.3
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	99%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	93%		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-19-S01	Date Sampled: 11/22/00
Lab Sample ID: F8233-1	Date Received: 11/27/00
Matrix: SO - Solid	Percent Solids: 84.3
Method: SW846 3550B/8270C SW846 3550B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W003225.D	1	11/30/00	ME	11/30/00	OP2375	SW192
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	990	ug/kg	
95-57-8	2-Chlorophenol	ND	400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	990	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	ug/kg	
95-48-7	2-Methylphenol	ND	400	ug/kg	
	3&4-Methylphenol	ND	400	ug/kg	
88-75-5	2-Nitrophenol	ND	400	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	990	ug/kg	
108-95-2	Phenol	ND	400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	ug/kg	
83-32-9	Acenaphthene	ND	400	ug/kg	
208-96-8	Acenaphthylene	ND	400	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	ug/kg	
100-51-6	Benzyl Alcohol	ND	400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	400	ug/kg	
106-47-8	4-Chloroaniline	ND	400	ug/kg	
86-74-8	Carbazole	ND	400	ug/kg	
218-01-9	Chrysene	ND	400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	400	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-19-S01	
Lab Sample ID: F8233-1	Date Sampled: 11/22/00
Matrix: SO - Solid	Date Received: 11/27/00
Method: SW846 3550B/8270C SW846 3550B	Percent Solids: 84.3
Project: CTO 229	

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	790	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	400	ug/kg	
132-64-9	Dibenzofuran	ND	400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	ug/kg	
84-66-2	Diethyl phthalate	ND	400	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	174	400	ug/kg	J
206-44-0	Fluoranthene	ND	400	ug/kg	
86-73-7	Fluorene	ND	400	ug/kg	
118-74-1	Hexachlorobenzene	ND	400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	ug/kg	
67-72-1	Hexachloroethane	ND	400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	
78-59-1	Isophorone	ND	400	ug/kg	
91-57-6	2-Methylnaphthalene	4310	400	ug/kg	
88-74-4	2-Nitroaniline	ND	400	ug/kg	
99-09-2	3-Nitroaniline	ND	400	ug/kg	
100-01-6	4-Nitroaniline	ND	400	ug/kg	
91-20-3	Naphthalene	682	400	ug/kg	
98-95-3	Nitrobenzene	ND	400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	400	ug/kg	
85-01-8	Phenanthrene	ND	400	ug/kg	
129-00-0	Pyrene	ND	400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		36-129%
4165-62-2	Phenol-d5	88%		38-135%
118-79-6	2,4,6-Tribromophenol	91%		37-144%
4165-60-0	Nitrobenzene-d5	116%		36-135%
321-60-8	2-Fluorobiphenyl	93%		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-19-S01	Date Sampled: 11/22/00
Lab Sample ID: F8233-1	Date Received: 11/27/00
Matrix: SO - Solid	Percent Solids: 84.3
Method: SW846 8015 M SW846 3550B	
Project: CTO 229	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF00493.D	40	12/01/00	SKW	11/30/00	OP2377	GZF22
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	1620	400	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	117%		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-19-S01	Date Sampled: 11/22/00
Lab Sample ID: F8233-1	Date Received: 11/27/00
Matrix: SO - Solid	Percent Solids: 84.3
Project: CTO 229	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.5	mg/kg	1	12/04/00	12/06/00 JK	SW846 6010B

RL = Reporting Limit

SECTION 5



CHAIN OF CUSTODY

1405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: 8833
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODES	
NAME: <u>OGDEN Environmental</u> ADDRESS: <u>2104 Westcap Blvd Suite 107</u> <u>Montsivile AL 35805</u> CITY, STATE ZIP SEND REPORT TO: PHONE # <u>256 537-3016</u>		PROJECT NAME: <u>Red Hill Bulk Fuel</u> LOCATION: <u>Oakm, HI</u> PROJECT NO.: <u>1-1019-0229</u> FAX # <u>256-539-3074</u>		VOC CFM 03.2 X VOC CFM 03.2 X (PHEW) SOLS & GEFD X lead etc		DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #		COLLECTION		PRESERVATION		LAB USE ONLY	
FIELD ID / POINT OF COLLECTION		DATE	TIME	SAMPLED BY:	MATRIX	BOTTLES	ICG
PH-BE-19-S01 temp blank		11/22/00	11:05	ALW	SOLS	3	X X
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		COMMENTS/REMARKS			
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY)					
APPROVED BY:		APPROVED BY:					
RECEIVED BY: <u>1. [Signature]</u>		RECEIVED BY: <u>2. [Signature]</u>					
DATE TIME: <u>11/25/00 12:00</u>		DATE TIME: <u>11/25/00 13:00</u>					
RECEIVED BY: <u>3. [Signature]</u>		RECEIVED BY: <u>4. [Signature]</u>					
DATE TIME: _____		DATE TIME: _____					
RECEIVED BY: <u>5. [Signature]</u>		RECEIVED BY: _____					
DATE TIME: _____		DATE TIME: _____					
SEAL # _____		PRESERVE WHERE APPLICABLE <input type="checkbox"/>		ON ICE <input type="checkbox"/>		TEMPERATURE <u>6.0</u> °C	

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

TANK 19/20

Technical Report for

AMEC Environmental**CTO 229****1-1019-0229****Accutest Job Number: F9117**

Report to:

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

ATTN: Kent Evetts

Total number of pages in report: 417
**Harry Behzadi, Ph.D.
Laboratory Director****Results relate only to the items tested.****This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.**

SECTION 2

**CASE NARRATIVE
GC/MS Volatile Analysis**

Laboratory Reference No. F9117

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/05/2001.

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

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Spikes: All acceptance criteria were met.

C. 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. 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: _____

Linda R. Williams

Federal Accounts Project Manager

Date: _____

3/26/01

**CASE NARRATIVE
GC/MS Semivolatile Analysis**

Laboratory Reference No. F9117

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/05/2001.

II. HOLDING TIMES

C. Sample Preparation: All holding times were met.

D. 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

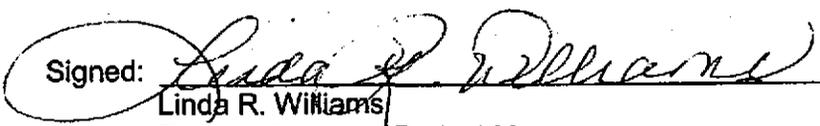
D. Calibration: All acceptance criteria were met.

E. Spikes: 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. 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:


Linda R. Williams

Federal Accounts Project Manager

Date:

3/26/01

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F9117

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/05/2001.

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 except for RH-BR-20-S01. The surrogate for o-Terphenyl was outside of the control limit due to the dilution factor.

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, 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: _____

Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/06/01

**CASE NARRATIVE
Inorganic Analysis**

Laboratory Reference No. F9117

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/05/2001.

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. 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: _____

Linda R. Williams

Federal Accounts Project Manager

Date: _____

3/26/01

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F9117

Client/Project: AMEL / Red Hill Bunk Fuel Storage

Date/Time Received: 3-5-01 11:00

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

Air Bill Number: 828 332123

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: 0

COMMENTS:
Three
Two bottles broken in shipment (RHBR 19-504)
One bottle was salvagable

Signature: Randy Adams Date: 3-5-01

SECTION 3

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SECTION 4



Sample Summary

AMEC Environmental

Job No: F9117

CTO 229

Project No: 1-1019-0229

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F9117-1	02/27/01	16:25 ALW	03/05/01	SO	Solid	RH-BR-19-S02
F9117-2	02/28/01	09:45 ALW	03/05/01	SO	Solid	RH-BR-19-S03
F9117-3	03/02/01	13:30 ALW	03/05/01	SO	Solid	RH-BR-19-S04
F9117-4	03/02/01	16:30 ALW	03/05/01	SO	Solid	RH-BR-20-S01



Report of Analysis

Client Sample ID: RH-BR-19-S02	Date Sampled: 02/27/01
Lab Sample ID: F9117-1	Date Received: 03/05/01
Matrix: SO - Solid	Percent Solids: 93.3
Method: SW846 8260B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H011229.D	1	03/08/01	NAF	n/a	n/a	VH288
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	51	ug/kg	
71-43-2	Benzene	ND	5.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	ug/kg	
75-25-2	Bromoform	ND	5.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	ug/kg	
75-00-3	Chloroethane	ND	5.1	ug/kg	
67-66-3	Chloroform	ND	5.1	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	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	5.1	ug/kg	
74-87-3	Methyl chloride	ND	5.1	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	5.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.1	ug/kg	
108-88-3	Toluene	ND	5.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	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



Client Sample ID: RH-BR-19-S02
 Lab Sample ID: F9117-1
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/27/01
 Date Received: 03/05/01
 Percent Solids: 93.3

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	98%		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



Client Sample ID: RH-BR-19-S02	Date Sampled: 02/27/01
Lab Sample ID: F9117-1	Date Received: 03/05/01
Matrix: SO - Solid	Percent Solids: 93.3
Method: SW846 8270C SW846 3550B	
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	710	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	69%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	78%		37-144%
4165-60-0	Nitrobenzene-d5	72%		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-19-S02	Date Sampled: 02/27/01
Lab Sample ID: F9117-1	Date Received: 03/05/01
Matrix: SO - Solid	Percent Solids: 93.3
Method: SW846 8015 M SW846 3550B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01497.D	1	03/13/01	SKW	03/12/01	OP2836	GZF68
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		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



Client Sample ID: RH-BR-19-S03
Lab Sample ID: F9117-2
Matrix: SO - Solid
Method: SW846 8260B
Project: CTO 229

Date Sampled: 02/28/01
Date Received: 03/05/01
Percent Solids: 96.4

Table with 8 columns: Run #, File ID, DF, Analyzed, By, Prep Date, Prep Batch, Analytical Batch. Row 1: Run #1, H011230.D, 1, 03/08/01, NAF, n/a, n/a, VH288. Row 2: Run #2

VOA TCL List

Table with 5 columns: CAS No., Compound, Result, RL, Units Q. Lists various compounds like Acetone, Benzene, Bromodichloromethane, etc., with results mostly ND and RL values like 64, 13.

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-19-S03

Lab Sample ID: F9117-2

Date Sampled: 02/28/01

Matrix: SO - Solid

Date Received: 03/05/01

Method: SW846 8270C SW846 3550B

Percent Solids: 96.4

Project: CTO 229

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W004209.D	1	03/12/01	ME	03/09/01	OP2835	SW241

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



Client Sample ID: RH-BR-19-S03

Lab Sample ID: F9117-2

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 02/28/01

Date Received: 03/05/01

Percent Solids: 96.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.4	mg/kg	1	03/12/01	03/19/01 JK	SW846 6010B

RL = Reporting Limit



Client Sample ID: RH-BR-19-S04	
Lab Sample ID: F9117-3	Date Sampled: 03/02/01
Matrix: SO - Solid	Date Received: 03/05/01
Method: SW846 8260B	Percent Solids: 97.4
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	98%		73-128%
460-00-4	4-Bromofluorobenzene	99%		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



Client Sample ID: RH-BR-19-S04

Lab Sample ID: F9117-3

Date Sampled: 03/02/01

Matrix: SO - Solid

Date Received: 03/05/01

Method: SW846 8270C SW846 3550B

Percent Solids: 97.4

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004210.D	1	03/12/01	ME	03/09/01	OP2835	SW241
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	680	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



Client Sample ID: RH-BR-19-S04	Date Sampled: 03/02/01
Lab Sample ID: F9117-3	Date Received: 03/05/01
Matrix: SO - Solid	Percent Solids: 97.4
Method: SW846 8270C SW846 3550B	
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	680	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	ND	340	ug/kg	
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	55%		36-129%
4165-62-2	Phenol-d5	63%		38-135%
118-79-6	2,4,6-Tribromophenol	74%		37-144%
4165-60-0	Nitrobenzene-d5	58%		36-135%
321-60-8	2-Fluorobiphenyl	62%		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



Client Sample ID: RH-BR-19-S04

Lab Sample ID: F9117-3

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 03/02/01

Date Received: 03/05/01

Percent Solids: 97.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.11 U	9.8	mg/kg	1	03/15/01	03/19/01 JK	SW846 6010B

RL = Reporting Limit

Client Sample ID: RH-BR-20-S01
Lab Sample ID: F9117-4
Matrix: SO - Solid
Method: SW846 8260B
Project: CTO 229

Date Sampled: 03/02/01
Date Received: 03/05/01
Percent Solids: 80.1

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	95%		53-158%
17060-07-0	1,2-Dichloroethane-D4	87%		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

Client Sample ID: RH-BR-20-S01	Date Sampled: 03/02/01
Lab Sample ID: F9117-4	Date Received: 03/05/01
Matrix: SO - Solid	Percent Solids: 80.1
Method: SW846 8270C SW846 3550B	
Project: CTO 229	

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W004216.D	4	03/13/01	ME	03/09/01	OP2835	SW242

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	4200	ug/kg	
95-57-8	2-Chlorophenol	ND	1700	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	1700	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	1700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	4200	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4200	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	3300	ug/kg	
95-48-7	2-Methylphenol	ND	1700	ug/kg	
	3&4-Methylphenol	ND	1700	ug/kg	
88-75-5	2-Nitrophenol	ND	1700	ug/kg	
100-02-7	4-Nitrophenol	ND	4200	ug/kg	
87-86-5	Pentachlorophenol	ND	4200	ug/kg	
108-95-2	Phenol	ND	1700	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	1700	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	1700	ug/kg	
83-32-9	Acenaphthene	ND	1700	ug/kg	
208-96-8	Acenaphthylene	ND	1700	ug/kg	
120-12-7	Anthracene	ND	1700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	1700	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	1700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	1700	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	1700	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	1700	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1700	ug/kg	
100-51-6	Benzyl Alcohol	ND	1700	ug/kg	
91-58-7	2-Chloronaphthalene	ND	1700	ug/kg	
106-47-8	4-Chloroaniline	ND	1700	ug/kg	
86-74-8	Carbazole	ND	1700	ug/kg	
218-01-9	Chrysene	ND	1700	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	1700	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	1700	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	1700	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1700	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1700	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1700	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-20-S01	Date Sampled: 03/02/01
Lab Sample ID: F9117-4	Date Received: 03/05/01
Matrix: SO - Solid	Percent Solids: 80.1
Method: SW846 8270C SW846 3550B	
Project: CTO 229	

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
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(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-20-S01 Lab Sample ID: F9117-4 Matrix: SO - Solid Method: SW846 8015 M SW846 3550B Project: CTO 229	Date Sampled: 03/02/01 Date Received: 03/05/01 Percent Solids: 80.1
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01500.D	40	03/13/01	SKW	03/12/01	OP2836	GZF68
Run #2							

CAS No.	Compound	Result	RL	Units Q
	TPH (C10-C28)	975	420	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



Client Sample ID: RH-BR-20-S01
Lab Sample ID: F9117-4
Matrix: SO - Solid
Project: CTO 229

Date Sampled: 03/02/01
Date Received: 03/05/01
Percent Solids: 80.1

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	9.8 B	12.7	mg/kg	1	03/08/01	03/09/01 JK	SW846 6010B

RL = Reporting Limit

SECTION 5

TANK 20

Technical Report for

AMEC Environmental**CTO 229****1-1019-0229-0120****Accutest Job Number: F9137**

Report to:

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

ATTN: Kent Evetts

Total number of pages in report: 308
**Harry Behzadi, Ph.D.
Laboratory Director****Results relate only to the items tested.****This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.**

SECTION 2

**CASE NARRATIVE
GC/MS Volatile Analysis**

Laboratory Reference No. F9137

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/08/2001.

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

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Spikes (Matrix Spike Duplicate): All acceptance criteria were met, except for the MSD recovery, which was, reported slightly high for cis-1,2-Dichloroethylene.

C. 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, 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: _____

Linda R. Williams
Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/26/01

**CASE NARRATIVE
GC/MS Semivolatile Analysis**

Laboratory Reference No. F9137

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/08/2001.

II. HOLDING TIMES

C. Sample Preparation: All holding times were met.

D. 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

D. Calibration: All acceptance criteria were met.

E. Spikes (Matrix Spike and LCS): All acceptance criteria were met, except for the MS and/ or MSD recovery, which was, reported outside of the acceptance criteria for bis(2-Chloroisopropyl)ether and Hexachloroethane.

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, 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: _____

Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/26/01

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F9137

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/08/2001.

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. 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: _____

Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/21/2001

**CASE NARRATIVE
Inorganic Analysis**

Laboratory Reference No. F9137

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 03/08/2001.

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. 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: _____

Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/26/01

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F9137
Client/Project: AMEC - Red Hill Bulk Fuel Storage
Date/Time Received: 3/8/01 1130
Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery Other DHL
Air Bill Number: 7758946882
Cooler Temperatures: 2.4

Custody Seals Intact?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Chain Of Custody Provided?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Chain Of Custody Match Bottles?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Sample Labels Present?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Are All Bottles Unbroken?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Proper Preservative?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Correct Containers Used?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Sufficient Sample Volume?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Number of Encores:	<u>0</u>	

COMMENTS:

Signature: Mike Fenell Date: 3/8/01

SECTION 3

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SECTION 4



Sample Summary

AMEC Environmental

Job No: F9137

CTO 229

Project No: 1-1019-0229-0120

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F9137-1	03/03/01	07:50 AV	03/08/01	SO	Solid	RH-BR-20-S02
F9137-2	03/03/01	15:40 AV	03/08/01	SO	Solid	RH-BR-20-S03



Client Sample ID: RH-BR-20-S02
 Lab Sample ID: F9137-1
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 03/03/01
 Date Received: 03/08/01
 Percent Solids: 74.0

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	H011291.D	50	03/14/01	NAF	n/a	n/a	VH291

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	3200	ug/kg	
71-43-2	Benzene	ND	320	ug/kg	
75-27-4	Bromodichloromethane	ND	320	ug/kg	
75-25-2	Bromoform	ND	320	ug/kg	
108-90-7	Chlorobenzene	ND	320	ug/kg	
75-00-3	Chloroethane	ND	320	ug/kg	
67-66-3	Chloroform	ND	320	ug/kg	
75-15-0	Carbon disulfide	ND	630	ug/kg	
56-23-5	Carbon tetrachloride	ND	320	ug/kg	
75-34-3	1,1-Dichloroethane	ND	320	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	320	ug/kg	
107-06-2	1,2-Dichloroethane	ND	320	ug/kg	
78-87-5	1,2-Dichloropropane	ND	320	ug/kg	
124-48-1	Dibromochloromethane	ND	320	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	320	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	320	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	320	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	320	ug/kg	
100-41-4	Ethylbenzene	ND	320	ug/kg	
591-78-6	2-Hexanone	ND	630	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	630	ug/kg	
74-83-9	Methyl bromide	ND	320	ug/kg	
74-87-3	Methyl chloride	ND	320	ug/kg	
75-09-2	Methylene chloride	ND	630	ug/kg	
78-93-3	Methyl ethyl ketone	ND	630	ug/kg	
100-42-5	Styrene	ND	320	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	320	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	320	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	320	ug/kg	
127-18-4	Tetrachloroethylene	ND	320	ug/kg	
108-88-3	Toluene	ND	320	ug/kg	
79-01-6	Trichloroethylene	ND	320	ug/kg	
75-01-4	Vinyl chloride	ND	320	ug/kg	
1330-20-7	Xylene (total)	ND	950	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-20-S02

Lab Sample ID: F9137-1

Matrix: SO - Solid

Method: SW846 8270C SW846 3550B

Project: CTO 229

Date Sampled: 03/03/01

Date Received: 03/08/01

Percent Solids: 74.0

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006765.D	1	03/17/01	ME	03/15/01	OP2856	SL402
Run #2							

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	900	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



Client Sample ID:	RH-BR-20-S02	Date Sampled:	03/03/01
Lab Sample ID:	F9137-1	Date Received:	03/08/01
Matrix:	SO - Solid	Percent Solids:	74.0
Method:	SW846 8270C SW846 3550B		
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	900	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	ND	450	ug/kg	
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	68%		36-129%
4165-62-2	Phenol-d5	77%		38-135%
118-79-6	2,4,6-Tribromophenol	77%		37-144%
4165-60-0	Nitrobenzene-d5	86%		36-135%
321-60-8	2-Fluorobiphenyl	89%		44-135%
1718-51-0	Terphenyl-d14	79%		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-20-S02

Lab Sample ID: F9137-1

Matrix: SO - Solid

Method: SW846 8015 M SW846 3550B

Project: CTO 229

Date Sampled: 03/03/01

Date Received: 03/08/01

Percent Solids: 74.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01544.D	20	03/16/01	SKW	03/15/01	OP2857	GZF71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
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	TPH (C10-C28)	794	220	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	84%		40-140%
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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-20-S02

Lab Sample ID: F9137-1

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 03/03/01

Date Received: 03/08/01

Percent Solids: 74.0

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.16 U	13.9	mg/kg	1	03/15/01	03/19/01 JK	SW846 6010B

RL = Reporting Limit

Client Sample ID: RH-BR-20-S03
 Lab Sample ID: F9137-2
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 03/03/01
 Date Received: 03/08/01
 Percent Solids: 88.1

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H011288.D	1	03/14/01	NAF	n/a	n/a	VH291
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



Client Sample ID: RH-BR-20-S03
 Lab Sample ID: F9137-2
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 03/03/01
 Date Received: 03/08/01
 Percent Solids: 88.1

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		71-122%
2037-26-5	Toluene-D8	116%		73-128%
460-00-4	4-Bromofluorobenzene	98%		53-158%
17060-07-0	1,2-Dichloroethane-D4	100%		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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Client Sample ID: RH-BR-20-S03

Lab Sample ID: F9137-2

Date Sampled: 03/03/01

Matrix: SO - Solid

Date Received: 03/08/01

Method: SW846 8270C SW846 3550B

Percent Solids: 88.1

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L006766.D	1	03/17/01	ME	03/15/01	OP2856	SL402
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	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	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

Client Sample ID:	RH-BR-20-S03	Date Sampled:	03/03/01
Lab Sample ID:	F9137-2	Date Received:	03/08/01
Matrix:	SO - Solid	Percent Solids:	88.1
Method:	SW846 8270C SW846 3550B		
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	57%		36-129%
4165-62-2	Phenol-d5	60%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	61%		36-135%
321-60-8	2-Fluorobiphenyl	60%		44-135%
1718-51-0	Terphenyl-d14	87%		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-20-S03

Lab Sample ID: F9137-2

Matrix: SO - Solid

Method: SW846 8015 M SW846 3550B

Project: CTO 229

Date Sampled: 03/03/01

Date Received: 03/08/01

Percent Solids: 88.1

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01543.D	1	03/16/01	SKW	03/15/01	OP2857	GZF71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.4	mg/kg	

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



Client Sample ID: RH-BR-20-S03

Lab Sample ID: F9137-2

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 03/03/01

Date Received: 03/08/01

Percent Solids: 88.1

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.0	mg/kg	1	03/15/01	03/19/01 JK	SW846 6010B

RL = Reporting Limit

SECTION 5

TANK V1D

Technical Report for

AMEC Environmental**CTO 229****1-1019-0229****Accutest Job Number: F9006**

Report to:

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

ATTN: Kent Evetts

Total number of pages in report: 329
**Harry Behzadi, Ph.D.
Laboratory Director**

Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

Ogden Environmental

Job No: F9006

CTO 229

Project No: 1-1019-0229

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F9006-1	02/16/01	00:00 JD	02/19/01	AQ	Trip Blank Soil	TRIP-BLANK
F9006-2	02/16/01	16:49 JD	02/19/01	SO	Solid	RH-BR-VID-501

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	02/16/01
Lab Sample ID:	F9006-1	Date Received:	02/19/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002706.D	1	02/21/01	JG	n/a	n/a	VC124
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	Date Sampled:	02/16/01
Lab Sample ID:	F9006-1	Date Received:	02/19/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
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	100%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	102%		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-VID-S01
 Lab Sample ID: F9006-2
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/16/01
 Date Received: 02/19/01
 Percent Solids: 84.2

Run #1 *	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	H011069.D	1	02/20/01	NAF	n/a	n/a	VH280

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-VID-S01	Date Sampled:	02/16/01
Lab Sample ID:	F9006-2	Date Received:	02/19/01
Matrix:	SO - Solid	Percent Solids:	84.2
Method:	SW846 8260B		
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	111%		73-128%
460-00-4	4-Bromofluorobenzene	97%		53-158%
17060-07-0	1,2-Dichloroethane-D4	86%		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-VID-S01		Date Sampled:	02/16/01
Lab Sample ID:	F9006-2		Date Received:	02/19/01
Matrix:	SO - Solid		Percent Solids:	84.2
Method:	SW846 8270C SW846 3550B			
Project:	CTO 229			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004039.D	1	02/27/01	ME	02/26/01	OP2781	SW233
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	990	ug/kg	
95-57-8	2-Chlorophenol	ND	400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	990	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	ug/kg	
95-48-7	2-Methylphenol	ND	400	ug/kg	
	3&4-Methylphenol	ND	400	ug/kg	
88-75-5	2-Nitrophenol	ND	400	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	990	ug/kg	
108-95-2	Phenol	ND	400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	ug/kg	
83-32-9	Acenaphthene	ND	400	ug/kg	
208-96-8	Acenaphthylene	ND	400	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	ug/kg	
100-51-6	Benzyl Alcohol	ND	400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	400	ug/kg	
106-47-8	4-Chloroaniline	ND	400	ug/kg	
86-74-8	Carbazole	ND	400	ug/kg	
218-01-9	Chrysene	ND	400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	400	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-VID-S01	Date Sampled:	02/16/01
Lab Sample ID:	F9006-2	Date Received:	02/19/01
Matrix:	SO - Solid	Percent Solids:	84.2
Method:	SW846 8270C SW846 3550B		
Project:	CTO 229		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	400	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	400	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	790	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	400	ug/kg	
132-64-9	Dibenzofuran	ND	400	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	ug/kg	
84-66-2	Diethyl phthalate	ND	400	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	400	ug/kg	
206-44-0	Fluoranthene	ND	400	ug/kg	
86-73-7	Fluorene	ND	400	ug/kg	
118-74-1	Hexachlorobenzene	ND	400	ug/kg	
87-68-3	Hexachlorobutadiene	ND	400	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	ug/kg	
67-72-1	Hexachloroethane	ND	400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	
78-59-1	Isophorone	ND	400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	400	ug/kg	
88-74-4	2-Nitroaniline	ND	400	ug/kg	
99-09-2	3-Nitroaniline	ND	400	ug/kg	
100-01-6	4-Nitroaniline	ND	400	ug/kg	
91-20-3	Naphthalene	ND	400	ug/kg	
98-95-3	Nitrobenzene	ND	400	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	400	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	400	ug/kg	
85-01-8	Phenanthrene	ND	400	ug/kg	
129-00-0	Pyrene	ND	400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		36-129%
4165-62-2	Phenol-d5	72%		38-135%
118-79-6	2,4,6-Tribromophenol	74%		37-144%
4165-60-0	Nitrobenzene-d5	69%		36-135%
321-60-8	2-Fluorobiphenyl	71%		44-135%
1718-51-0	Terphenyl-d14	79%		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-VID-S01	Date Sampled:	02/16/01
Lab Sample ID:	F9006-2	Date Received:	02/19/01
Matrix:	SO - Solid	Percent Solids:	84.2
Method:	SW846 8015 M SW846 3550B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01425.D	1	03/01/01	SKW	02/27/01	OP2793	GZF64
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	<i>o</i> -Terphenyl	84%		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-VID-S01	Date Sampled:	02/16/01
Lab Sample ID:	F9006-2	Date Received:	02/19/01
Matrix:	SO - Solid	Percent Solids:	84.2
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.15 U	12.5	mg/kg	1	02/28/01	03/02/01 JK	SW846 6010B

RL = Reporting Limit

SECTION 2

**CASE NARRATIVE
GC/MS Volatile Analysis**

Laboratory Reference No. F9006

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

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 19, 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): MS recovery for cis-1,2-Dichloroethene was slightly high, however the LCS recovery was 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: _____

Harry Benzadi, Ph.D.
Laboratory Director

Date: _____

3/7/01

CASE NARRATIVE
GC/MS Semi-Volatile Analysis

Laboratory Reference No. F9006

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

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 19, 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): All acceptance criteria were met.

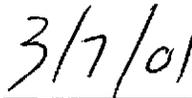
D. Samples: Sample analyses proceeded normally.

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: _____


Harry Benzadi, Ph.D.
Laboratory Director

Date: _____



CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F9006

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

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 19, 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.

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:

Signed:  Date: 3/7/01
Harry Behzadi, Ph.D.
Laboratory Director

**CASE NARRATIVE
Inorganic Analysis**

Laboratory Reference No. F9006

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

I. RECEIPT

The samples were received via DHL Worldwide Express on Feb 19, 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

F. Calibration: All acceptance criteria were met.

G. Blanks: All acceptance criteria were met.

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

I. Duplicates: All acceptance criteria were met.

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

K. 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: _____


Harry Benzadi, Ph.D.
Laboratory Director

Date: _____



Internal Sample Tracking Chronicle

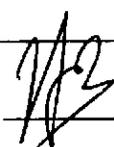
AMEC Environmental

Job No: F9006

CTO 229

Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F9006-1 Collected: 16-FEB-01 00:00 By: JD Received: 19-FEB-01 By: SMG TRIP BLANK						
F9006-1	SW846 8260B	21-FEB-01 14:06	JG			V8260TCL
F9006-2 Collected: 16-FEB-01 16:49 By: JD Received: 19-FEB-01 By: SMG RH-BR-VID-S01						
F9006-2	EPA 160.3 M	20-FEB-01	LIR			%SOL
F9006-2	SW846 8260B	20-FEB-01 19:31	NAF			V8260TCL
F9006-2	SW846 8270C	27-FEB-01 11:28	ME	26-FEB-01	NJ	AB8270TCL
F9006-2	SW846 8015 M	01-MAR-01 11:42	SKW	27-FEB-01	NJ	B8015DROM1
F9006-2	SW846 6010B	02-MAR-01 13:12	JK	28-FEB-01	LIR	PB



SECTION 3

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SECTION 4



Sample Summary

Ogden Environmental

Job No: F9006

CTO 229

Project No: 1-1019-0229

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F9006-1	02/16/01	00:00 JD	02/19/01	AQ	Trip Blank Soil	TRIP-BLANK
F9006-2	02/16/01	16:49 JD	02/19/01	SO	Solid	RH-BR-VID-S01



Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	02/16/01
Lab Sample ID:	F9006-1	Date Received:	02/19/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002706.D	1	02/21/01	JG	n/a	n/a	VC124
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	1,1,1,2-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

0009



Client Sample ID: TRIP BLANK

Lab Sample ID: F9006-1

Matrix: AQ - Trip Blank Soil

Method: SW846 8260B

Project: CTO 229

Date Sampled: 02/16/01

Date Received: 02/19/01

Percent Solids: n/a

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	100%		69-128%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	102%		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



Client Sample ID: RH-BR-VID-S01
 Lab Sample ID: F9006-2
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/16/01
 Date Received: 02/19/01
 Percent Solids: 84.2

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	H011069.D	1	02/20/01	NAF	n/a	n/a	VH280
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



Client Sample ID: RH-BR-VID-S01
Lab Sample ID: F9006-2
Matrix: SO - Solid
Method: SW846 8260B
Project: CTO 229

Date Sampled: 02/16/01
Date Received: 02/19/01
Percent Solids: 84.2

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		71-122%
2037-26-5	Toluene-D8	111%		73-128%
460-00-4	4-Bromofluorobenzene	97%		53-158%
17060-07-0	1,2-Dichloroethane-D4	86%		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

0012



Report of Analysis

Client Sample ID: RH-BR-VID-S01
Lab Sample ID: F9006-2
Matrix: SO - Solid
Method: SW846 8270C SW846 3550B
Project: CTO 229
Date Sampled: 02/16/01
Date Received: 02/19/01
Percent Solids: 84.2

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004039.D	1	02/27/01	ME	02/26/01	OP2781	SW233
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	990	ug/kg	
95-57-8	2-Chlorophenol	ND	400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	990	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	990	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	ug/kg	
95-48-7	2-Methylphenol	ND	400	ug/kg	
	3&4-Methylphenol	ND	400	ug/kg	
88-75-5	2-Nitrophenol	ND	400	ug/kg	
100-02-7	4-Nitrophenol	ND	990	ug/kg	
87-86-5	Pentachlorophenol	ND	990	ug/kg	
108-95-2	Phenol	ND	400	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	ug/kg	
83-32-9	Acenaphthene	ND	400	ug/kg	
208-96-8	Acenaphthylene	ND	400	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	400	ug/kg	
50-32-8	Benzo(a)pyrene	ND	400	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	400	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	400	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	400	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	ug/kg	
100-51-6	Benzyl Alcohol	ND	400	ug/kg	
91-58-7	2-Chloronaphthalene	ND	400	ug/kg	
106-47-8	4-Chloroaniline	ND	400	ug/kg	
86-74-8	Carbazole	ND	400	ug/kg	
218-01-9	Chrysene	ND	400	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	400	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	400	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	400	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	400	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	400	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

0013



Client Sample ID: RH-BR-VID-S01	Date Sampled: 02/16/01
Lab Sample ID: F9006-2	Date Received: 02/19/01
Matrix: SO - Solid	Percent Solids: 84.2
Method: SW846 8015 M SW846 3550B	
Project: CTO 229	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01425.D	1	03/01/01	SKW	02/27/01	OP2793	GZF64
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.9	mg/kg	

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

**Client Sample ID:** RH-BR-VID-S01**Lab Sample ID:** F9006-2**Matrix:** SO - Solid**Project:** CTO 229**Date Sampled:** 02/16/01**Date Received:** 02/19/01**Percent Solids:** 84.2**Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.15 U	12.5	mg/kg	1	02/28/01	03/02/01 JK	SW846 6010B

RL = Reporting Limit

0026

SECTION 5



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:
ACCUTEST QUOTE #:

1906

TEMPERATURE
72 C

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODES											
NAME: <i>Ogden Environmental & Energy Services, Inc.</i> ADDRESS: <i>2904 Westcove Blvd., Suite 107</i> <i>Huntsville, AL 35805</i> CITY: <i>Kent</i> STATE: _____ ZIP: _____ SEND REPORT TO: <i>Events</i> PHONE #: <i>(256) 539-3016</i>		PROJECT NAME: <i>Red Hill Bulk Fuel Storage Facility</i> LOCATION: <i>Osby, HI</i> <i>1-1019-0029</i> PROJECT NO.: _____ FAX #: <i>(256) 539-3014</i>		VOL CLP OLM 03.2 SVOC CLP OLM 03.2 Lead CLP ILM 04.0 TPH as Fuel 8015 B		DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LO - OTHER LIQUID SOL - OTHER SOLID											
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		PRESERVATION		LAB USE ONLY											
		DATE	TIME	SAMPLED BY:	MATRIX	1	2	3	4	5	6	7	8	9	10		
<i>-1</i>	<i>Trip Blanks</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>LIQ 2</i>	<i>X</i>	<i>X</i>										
<i>-2</i>	<i>Temp Blank</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>LIQ 1</i>	<i>X</i>	<i>X</i>										
	<i>Sample Rt-BR-V10-501</i>	<i>2/16/01</i>	<i>2:16:19</i>	<i>SLD</i>	<i>SOL 3</i>	<i>X</i>	<i>X</i>	<i>X</i>									
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		COMMENTS/REMARKS													
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____															
APPROVED BY: _____		APPROVED BY: _____															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																	
RELINQUISHED BY: <i>1. Dany A. Alvarado</i>	DATE TIME: <i>2/16/01 2:18:23</i>	RECEIVED BY: <i>[Signature]</i>	DATE TIME: <i>2/19/01</i>	RELINQUISHED BY: <i>2.</i>	DATE TIME: _____	RECEIVED BY: <i>2.</i>	DATE TIME: _____										
RELINQUISHED BY: <i>3.</i>	DATE TIME: _____	RECEIVED BY: <i>3.</i>	DATE TIME: _____	RELINQUISHED BY: <i>4.</i>	DATE TIME: _____	RECEIVED BY: <i>4.</i>	DATE TIME: _____										
RELINQUISHMET <i>5.</i>	DATE TIME: _____	RECEIVED BY: <i>5.</i>	DATE TIME: _____	RELINQUISHED BY: <i>5.</i>	DATE TIME: _____	RECEIVED BY: <i>5.</i>	DATE TIME: _____										

PRESERVE WHERE APPLICABLE

ON ICE TEMPERATURE *72 C*

TANK
V1D/V2S

Technical Report for

AMEC Environmental

CTO 229

1-1019-0229

Accutest Job Number: F9054

Report to:

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

ATTN: Kent Evetts

Total number of pages in report: 471



Harry Behzadi, Ph.D.
Laboratory Director

Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F9054

Client/Project: Ogden / Red Hill Bulk Fuel Storage

Date/Time Received: 2-23-01 10:00

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

Air Bill Number: 8103264444

Cooler Temperatures: 2.4°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: 0

COMMENTS:

Signature: Paul A. Sals Date: 2-23-01

Sample Summary

AMEC Environmental

Job No: F9054

CTO 229

Project No: 1-1019-0229

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F9054-1	02/19/01	08:25 AW	02/23/01	SO	Solid	RH-BR-V1D-S02
F9054-2	02/20/01	16:35 AW	02/23/01	SO	Solid	RH-BR-V2D-S01
F9054-3	02/20/01	11:15 AW	02/23/01	SO	Solid	RH-BR-V1D-S03
F9054-4	02/19/01	00:00 AW	02/23/01	AQ	Trip Blank Soil	TRIP BLANK

Report of Analysis

Client Sample ID: RH-BR-V1D-S02
 Lab Sample ID: F9054-1
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/19/01
 Date Received: 02/23/01
 Percent Solids: 92.7

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	G0015286.D	1	03/01/01	NAF	n/a	n/a	VG460

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-V1D-S02	Date Sampled:	02/19/01
Lab Sample ID:	F9054-1	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	92.7
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	108%		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-V1D-S02		Date Sampled:	02/19/01	
Lab Sample ID:	F9054-1		Date Received:	02/23/01	
Matrix:	SO - Solid		Percent Solids:	92.7	
Method:	SW846 8270C SW846 3550B				
Project:	CTO 229				

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W004093.D	1	03/02/01	ME	03/01/01	OP2805	SW235

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-V1D-S02	Date Sampled:	02/19/01
Lab Sample ID:	F9054-1	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	92.7
Method:	SW846 8270C SW846 3550B		
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	70%		36-129%
4165-62-2	Phenol-d5	75%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	74%		36-135%
321-60-8	2-Fluorobiphenyl	78%		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-V1D-S02		Date Sampled:	02/19/01	
Lab Sample ID:	F9054-1		Date Received:	02/23/01	
Matrix:	SO - Solid		Percent Solids:	92.7	
Method:	SW846 8015 M SW846 3550B				
Project:	CTO 229				

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01464.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
Run #2							

CAS No.	Compound	Result	RL	Units	Q
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	TPH (C10-C28)	ND	9.0	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	92%		40-140%
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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-V1D-S02	Date Sampled:	02/19/01
Lab Sample ID:	F9054-1	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	92.7
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.5	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID: RH-BR-V2D-S01
 Lab Sample ID: F9054-2
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/20/01
 Date Received: 02/23/01
 Percent Solids: 96.7

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	G0015287.D	1	03/01/01	NAF	n/a	n/a	VG460

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	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-VZD-S01	Date Sampled:	02/20/01
Lab Sample ID:	F9054-2	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	96.7
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	112%		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-V2D-S01	Date Sampled:	02/20/01
Lab Sample ID:	F9054-2	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	96.7
Method:	SW846 8270C SW846 3550B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004094.D	1	03/02/01	ME	03/01/01	OP2805	SW235
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-V2D-S01	Date Sampled:	02/20/01
Lab Sample ID:	F9054-2	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	96.7
Method:	SW846 8270C SW846 3550B		
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	ND	340	ug/kg	
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	53%		36-129%
4165-62-2	Phenol-d5	57%		38-135%
118-79-6	2,4,6-Tribromophenol	68%		37-144%
4165-60-0	Nitrobenzene-d5	57%		36-135%
321-60-8	2-Fluorobiphenyl	57%		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-V2D-S01		Date Sampled:	02/20/01
Lab Sample ID:	F9054-2		Date Received:	02/23/01
Matrix:	SO - Solid		Percent Solids:	96.7
Method:	SW846 8015 M SW846 3550B			
Project:	CTO 229			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01465.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
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	79%		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-V2D-S01	Date Sampled:	02/20/01
Lab Sample ID:	F9054-2	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	96.7
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.2	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-V1D-S03	Date Sampled:	02/20/01
Lab Sample ID:	F9054-3	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015288.D	1	03/01/01	NAF	n/a	n/a	VG460
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-V1D-S03	Date Sampled:	02/20/01
Lab Sample ID:	F9054-3	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	110%		53-158%
17060-07-0	1,2-Dichloroethane-D4	110%		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-V1D-S03		Date Sampled:	02/20/01
Lab Sample ID:	F9054-3		Date Received:	02/23/01
Matrix:	SO - Solid		Percent Solids:	94.7
Method:	SW846 8270C SW846 3550B			
Project:	CTO 229			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004097.D	1	03/02/01	ME	03/01/01	OP2805	SW235
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	700	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-VID-S03	Date Sampled:	02/20/01
Lab Sample ID:	F9054-3	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8270C SW846 3550B		
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	700	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	ND	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	67%		36-129%
4165-62-2	Phenol-d5	73%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	72%		36-135%
321-60-8	2-Fluorobiphenyl	76%		44-135%
1718-51-0	Terphenyl-d14	88%		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-V1D-S03 Lab Sample ID: F9054-3 Matrix: SO - Solid Method: SW846 8015 M SW846 3550B Project: CTO 229	Date Sampled: 02/20/01 Date Received: 02/23/01 Percent Solids: 94.7
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01468.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
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	83%		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-V1D-S03	Date Sampled:	02/20/01
Lab Sample ID:	F9054-3	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	94.7
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.4	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	02/19/01
Lab Sample ID:	F9054-4	Date Received:	02/23/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002796.D	1	02/26/01	JG	n/a	n/a	VC129
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	Date Sampled:	02/19/01
Lab Sample ID:	F9054-4	Date Received:	02/23/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		69-128%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	104%		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

SECTION 2

**CASE NARRATIVE
GC/MS Volatile Analysis**

Laboratory Reference No. F9054

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/23/2001.

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 except the trip blank that was performed using
SW-846 5030B

Analysis: SW-846 8260B

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Spikes (Matrix Spike and Matrix Spike Duplicate): All acceptance criteria were met, except for the MS and/ or MSD recovery, which was, reported high for 1,1-Dichloroethylene and Methylene chloride.

C. 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, 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: _____

Linda R. Williams
Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/19/01

CASE NARRATIVE
GC/MS Semivolatile Analysis

Laboratory Reference No. F9054

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/23/2001.

II. HOLDING TIMES

C. Sample Preparation: All holding times were met.

D. 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

D. Calibration: All acceptance criteria were met.

E. Spikes (Matrix Spike and LCS): All acceptance criteria were met, except for the MS and/ or MSD recovery, which was, reported outside of the acceptance criteria for several compounds.

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, 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: _____

Linda R. Williams

Federal Accounts Project Manager

Date: _____

3/19/01

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F9054

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/23/2001.

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.

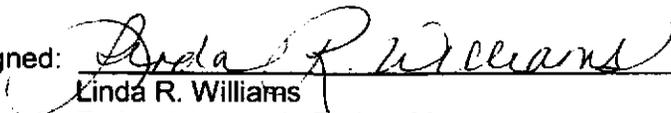
B. Blanks: All acceptance criteria were met.

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. 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: _____


Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/19/01

**CASE NARRATIVE
Inorganic Analysis**

Laboratory Reference No. F9054

Client/Project: AMEC/1-1019-0229

I. RECEIPT

No exceptions were encountered. All samples were received via DHL Worldwide Express on 02/23/2001.

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)

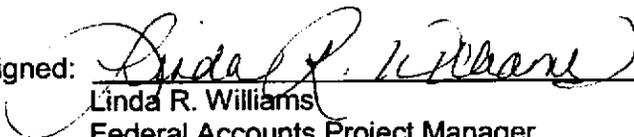
IV. PREPARATION

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. 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: 3/19/01
Linda R. Williams
Federal Accounts Project Manager

Internal Sample Tracking Chronicle

AMEC Environmental

Job No: F9054

CTO 229

Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F9054-1 Collected: 19-FEB-01 08:25 By: AW Received: 23-FEB-01 By: SMG RH-BR-VID-S02						
F9054-1	SW846 8260B	01-MAR-01 13:16	NAF			V8260TCL
F9054-1	SW846 8270C	02-MAR-01 15:16	ME	01-MAR-01 NJ		AB8270TCL
F9054-1	SW846 8015 M	02-MAR-01 16:47	SKW	01-MAR-01 NJ		B8015DROM1
F9054-1	EPA 160.3 M	05-MAR-01	AL			%SOL
F9054-1	SW846 6010B	08-MAR-01 13:56	JK	06-MAR-01 LIR		PB
F9054-2 Collected: 20-FEB-01 16:35 By: AW Received: 23-FEB-01 By: SMG RH-BR-V2D-S01						
F9054-2	SW846 8260B	01-MAR-01 13:56	NAF			V8260TCL
F9054-2	SW846 8270C	02-MAR-01 15:47	ME	01-MAR-01 NJ		AB8270TCL
F9054-2	SW846 8015 M	02-MAR-01 17:12	SKW	01-MAR-01 NJ		B8015DROM1
F9054-2	EPA 160.3 M	05-MAR-01	AL			%SOL
F9054-2	SW846 6010B	08-MAR-01 14:02	JK	06-MAR-01 LIR		PB
F9054-3 Collected: 20-FEB-01 11:15 By: AW Received: 23-FEB-01 By: SMG RH-BR-VID-S03						
F9054-3	SW846 8260B	01-MAR-01 14:35	NAF			V8260TCL
F9054-3	SW846 8270C	02-MAR-01 17:20	ME	01-MAR-01 NJ		AB8270TCL
F9054-3	SW846 8015 M	02-MAR-01 18:25	SKW	01-MAR-01 NJ		B8015DROM1
F9054-3	EPA 160.3 M	05-MAR-01	AL			%SOL
F9054-3	SW846 6010B	08-MAR-01 12:57	JK	06-MAR-01 LIR		PB
F9054-4 Collected: 19-FEB-01 00:00 By: AW Received: 23-FEB-01 By: SMG TRIP BLANK						
F9054-4	SW846 8260B	26-FEB-01 20:31	JG			V8260TCL

SECTION 3

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SECTION 4



Sample Summary

AMEC Environmental

Job No: F9054

CTO 229

Project No: 1-1019-0229

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F9054-1	02/19/01	08:25 AW	02/23/01	SO	Solid	RH-BR-V1D-S02
F9054-2	02/20/01	16:35 AW	02/23/01	SO	Solid	RH-BR-V2D-S01
F9054-3	02/20/01	11:15 AW	02/23/01	SO	Solid	RH-BR-V1D-S03
F9054-4	02/19/01	00:00 AW	02/23/01	AQ	Trip Blank Soil	TRIP BLANK



Client Sample ID: RH-BR-V1D-S02
 Lab Sample ID: F9054-1
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/19/01
 Date Received: 02/23/01
 Percent Solids: 92.7

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0015286.D	1	03/01/01	NAF	n/a	n/a	VG460
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	1,1,1,2,2-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

Client Sample ID: RH-BR-V1D-S02	
Lab Sample ID: F9054-1	Date Sampled: 02/19/01
Matrix: SO - Solid	Date Received: 02/23/01
Method: SW846 8260B	Percent Solids: 92.7
Project: CTO 229	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		71-122%
2037-26-5	Toluene-D8	98%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	108%		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

Client Sample ID: RH-BR-V1D-S02

Lab Sample ID: F9054-1

Date Sampled: 02/19/01

Matrix: SO - Solid

Date Received: 02/23/01

Method: SW846 8270C SW846 3550B

Percent Solids: 92.7

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004093.D	1	03/02/01	ME	03/01/01	OP2805	SW235
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

Client Sample ID: RH-BR-V1D-S02	Date Sampled: 02/19/01
Lab Sample ID: F9054-1	Date Received: 02/23/01
Matrix: SO - Solid	Percent Solids: 92.7
Method: SW846 8270C SW846 3550B	
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	70%		36-129%
4165-62-2	Phenol-d5	75%		38-135%
118-79-6	2,4,6-Tribromophenol	79%		37-144%
4165-60-0	Nitrobenzene-d5	74%		36-135%
321-60-8	2-Fluorobiphenyl	78%		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-V1D-S02

Lab Sample ID: F9054-1

Date Sampled: 02/19/01

Matrix: SO - Solid

Date Received: 02/23/01

Method: SW846 8015 M SW846 3550B

Percent Solids: 92.7

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01464.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
Run #2							

CAS No.	Compound	Result	RL	Units	Q
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	TPH (C10-C28)	ND	9.0	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	92%		40-140%
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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-V1D-S02

Lab Sample ID: F9054-1

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 02/19/01

Date Received: 02/23/01

Percent Solids: 92.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.5	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Client Sample ID: RH-BR-V2D-S01	
Lab Sample ID: F9054-2	Date Sampled: 02/20/01
Matrix: SO - Solid	Date Received: 02/23/01
Method: SW846 8260B	Percent Solids: 96.7
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0015287.D	1	03/01/01	NAF	n/a	n/a	VG460
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	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



Client Sample ID: RH-BR-V2D-S01	
Lab Sample ID: F9054-2	Date Sampled: 02/20/01
Matrix: SO - Solid	Date Received: 02/23/01
Method: SW846 8260B	Percent Solids: 96.7
Project: CTO 229	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	107%		53-158%
17060-07-0	1,2-Dichloroethane-D4	112%		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-V2D-S01

Lab Sample ID: F9054-2

Date Sampled: 02/20/01

Matrix: SO - Solid

Date Received: 02/23/01

Method: SW846 8270C SW846 3550B

Percent Solids: 96.7

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004094.D	1	03/02/01	ME	03/01/01	OP2805	SW235
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



Client Sample ID: RH-BR-V2D-S01	Date Sampled: 02/20/01
Lab Sample ID: F9054-2	Date Received: 02/23/01
Matrix: SO - Solid	Percent Solids: 96.7
Method: SW846 8270C SW846 3550B	
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	ND	340	ug/kg	
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	53%		36-129%
4165-62-2	Phenol-d5	57%		38-135%
118-79-6	2,4,6-Tribromophenol	68%		37-144%
4165-60-0	Nitrobenzene-d5	57%		36-135%
321-60-8	2-Fluorobiphenyl	57%		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-V2D-S01
 Lab Sample ID: F9054-2
 Matrix: SO - Solid
 Method: SW846 8015 M SW846 3550B
 Project: CTO 229

Date Sampled: 02/20/01
 Date Received: 02/23/01
 Percent Solids: 96.7

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01465.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
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	79%		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



Client Sample ID: RH-BR-V2D-S01
Lab Sample ID: F9054-2
Matrix: SO - Solid
Project: CTO 229

Date Sampled: 02/20/01
Date Received: 02/23/01
Percent Solids: 96.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.12 U	10.2	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Client Sample ID: RH-BR-VID-S03	Date Sampled: 02/20/01
Lab Sample ID: F9054-3	Date Received: 02/23/01
Matrix: SO - Solid	Percent Solids: 94.7
Method: SW846 8260B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0015288.D	1	03/01/01	NAF	n/a	n/a	VG460
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



Client Sample ID: RH-BR-V1D-S03

Lab Sample ID: F9054-3

Date Sampled: 02/20/01

Matrix: SO - Solid

Date Received: 02/23/01

Method: SW846 8270C SW846 3550B

Percent Solids: 94.7

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004097.D	1	03/02/01	ME	03/01/01	OP2805	SW235
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	700	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



Client Sample ID:	RH-BR-VID-S03	Date Sampled:	02/20/01
Lab Sample ID:	F9054-3	Date Received:	02/23/01
Matrix:	SO - Solid	Percent Solids:	94.7
Method:	SW846 8270C SW846 3550B		
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	700	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	ND	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	67%		36-129%
4165-62-2	Phenol-d5	73%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	72%		36-135%
321-60-8	2-Fluorobiphenyl	76%		44-135%
1718-51-0	Terphenyl-d14	88%		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-V1D-S03
Lab Sample ID: F9054-3
Matrix: SO - Solid
Method: SW846 8015 M SW846 3550B
Project: CTO 229

Date Sampled: 02/20/01
Date Received: 02/23/01
Percent Solids: 94.7

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01468.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
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	83%		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: TRIP BLANK

Lab Sample ID: F9054-4

Matrix: AQ - Trip Blank Soil

Method: SW846 8260B

Project: CTO 229

Date Sampled: 02/19/01

Date Received: 02/23/01

Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002796.D	1	02/26/01	JG	n/a	n/a	VC129
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



Client Sample ID: TRIP BLANK	
Lab Sample ID: F9054-4	Date Sampled: 02/19/01
Matrix: AQ - Trip Blank Soil	Date Received: 02/23/01
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	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		69-128%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	104%		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

SECTION 5

CLIENT INFORMATION

NAME: Amecc / Ogden
 ADDRESS: 2901 Westcap Blvd Site 107
Huntsville AL 35805
 CITY: _____ STATE: _____ ZIP: _____

SEND REPORT TO: 256-539-3016
 PHONE # _____

FACILITY INFORMATION

PROJECT NAME: Red Hill Bulk Fuel Storage
 LOCATION: Oak Hill
 PROJECT NO.: 1-1019-0229

FAX #: 256-539-3074

ANALYTICAL INFORMATION

MATRIX CODES

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

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		MATRIX	# OF BOTTLES	PRESERVATION					ANALYTICAL INFORMATION	LAB USE ONLY
		DATE	TIME			SAMPLED BY:	ICE	COOL	SHAKE	STIR		
1	RH-BE-VLD-S02	2-19	08:25	ALU	3						VOL (OLM03.2)	
2	RH-BE-V2S-S01	2-19	16:35	ALU	3						SWC (OLM03.2)	
3	RH-BE-VLD-S03	2-19	11:15	ALU	3						Lead (ILM04.0)	
4	Temp blank										TPH as fuel (S105)	
	Temp blank											

DATA TURNAROUND INFORMATION

STANDARD 48 HOUR RUSH
 24 HOUR EMERGENCY
 OTHER _____

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

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

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

RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____	DATE TIME: _____
RELINQUISHED BY: <u>Steve Williams</u>	DATE TIME: <u>2/19/01 11:00</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>1/18/01</u>
RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____	DATE TIME: _____
RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____	DATE TIME: _____

SEAL # _____ PRESERVE WHERE APPLICABLE

ONCE _____ TEMPERATURE 24°C

TANK V2S

Technical Report for

AMEC Environmental

CTO 229

1-1019-0229

Accutest Job Number: F9066

Report to:

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

ATTN: Kent Evetts

Total number of pages in report: 461


Harry Behzadi, Ph.D.
Laboratory Director

Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Sample Summary

AMEC Environmental

Job No: F9066

CTO 229

Project No: 1-1019-0229

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F9066-1	02/21/01	09:55 AW	02/26/01	SO	Solid	RH-BR-V2S-S02
F9066-2	02/23/01	10:40 AW	02/26/01	SO	Solid	RH-BR-V2S-S03
F9066-3	02/21/01	00:00 AW	02/26/01	AQ	Trip Blank Soil	TRIP BLANK

Report of Analysis

Client Sample ID: RH-BR-V2S-S02
 Lab Sample ID: F9066-1
 Matrix: SO - Solid
 Method: SW846 8260B
 Project: CTO 229

Date Sampled: 02/21/01
 Date Received: 02/26/01
 Percent Solids: 89.4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 *	G0015289.D	1	03/01/01	NAF	n/a	n/a	VG460
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	55	ug/kg	
71-43-2	Benzene	ND	5.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	ug/kg	
75-25-2	Bromoform	ND	5.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	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	5.5	ug/kg	
74-87-3	Methyl chloride	ND	5.5	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	5.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	ug/kg	
108-88-3	Toluene	ND	5.5	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	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-V2S-S02	Date Sampled:	02/21/01
Lab Sample ID:	F9066-1	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	89.4
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	94%		73-128%
460-00-4	4-Bromofluorobenzene	111%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		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-V2S-S02		Date Sampled:	02/21/01
Lab Sample ID:	F9066-1		Date Received:	02/26/01
Matrix:	SO - Solid		Percent Solids:	89.4
Method:	SW846 8270C SW846 3550B			
Project:	CTO 229			

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W004098.D	1	03/02/01	ME	03/01/01	OP2805	SW235

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	930	ug/kg	
95-57-8	2-Chlorophenol	ND	370	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	370	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	370	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	930	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	930	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	ug/kg	
95-48-7	2-Methylphenol	ND	370	ug/kg	
	3&4-Methylphenol	ND	370	ug/kg	
88-75-5	2-Nitrophenol	ND	370	ug/kg	
100-02-7	4-Nitrophenol	ND	930	ug/kg	
87-86-5	Pentachlorophenol	ND	930	ug/kg	
108-95-2	Phenol	ND	370	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	370	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	370	ug/kg	
83-32-9	Acenaphthene	ND	370	ug/kg	
208-96-8	Acenaphthylene	ND	370	ug/kg	
120-12-7	Anthracene	ND	370	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	ug/kg	
50-32-8	Benzo(a)pyrene	ND	370	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	370	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	370	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	370	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	370	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	ug/kg	
100-51-6	Benzyl Alcohol	ND	370	ug/kg	
91-58-7	2-Chloronaphthalene	ND	370	ug/kg	
106-47-8	4-Chloroaniline	ND	370	ug/kg	
86-74-8	Carbazole	ND	370	ug/kg	
218-01-9	Chrysene	ND	370	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	370	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	370	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	370	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	370	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	370	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	370	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-V2S-S02		Date Sampled:	02/21/01
Lab Sample ID:	F9066-1		Date Received:	02/26/01
Matrix:	SO - Solid		Percent Solids:	89.4
Method:	SW846 8270C	SW846 3550B		
Project:	CTO 229			

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	370	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	370	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	370	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	740	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	370	ug/kg	
132-64-9	Dibenzofuran	ND	370	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	ug/kg	
84-66-2	Diethyl phthalate	ND	370	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	ug/kg	
206-44-0	Fluoranthene	ND	370	ug/kg	
86-73-7	Fluorene	ND	370	ug/kg	
118-74-1	Hexachlorobenzene	ND	370	ug/kg	
87-68-3	Hexachlorobutadiene	ND	370	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	ug/kg	
67-72-1	Hexachloroethane	ND	370	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	370	ug/kg	
78-59-1	Isophorone	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
88-74-4	2-Nitroaniline	ND	370	ug/kg	
99-09-2	3-Nitroaniline	ND	370	ug/kg	
100-01-6	4-Nitroaniline	ND	370	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
98-95-3	Nitrobenzene	ND	370	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	370	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	370	ug/kg	
85-01-8	Phenanthrene	ND	370	ug/kg	
129-00-0	Pyrene	ND	370	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		36-129%
4165-62-2	Phenol-d5	65%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	64%		36-135%
321-60-8	2-Fluorobiphenyl	70%		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

Page 1 of 1

Client Sample ID:	RH-BR-V2S-S02	Date Sampled:	02/21/01
Lab Sample ID:	F9066-1	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	89.4
Method:	SW846 8015 M SW846 3550B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01469.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		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-V2S-S02	Date Sampled:	02/21/01
Lab Sample ID:	F9066-1	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	89.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.1	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RH-BR-V2S-S03	Date Sampled:	02/23/01
Lab Sample ID:	F9066-2	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	93.4
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015290.D	1	03/01/01	NAF	n/a	n/a	VG460
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	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-V2S-S03	Date Sampled:	02/23/01
Lab Sample ID:	F9066-2	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	93.4
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	112%		53-158%
17060-07-0	1,2-Dichloroethane-D4	110%		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-V2S-S03		Date Sampled:	02/23/01
Lab Sample ID:	F9066-2		Date Received:	02/26/01
Matrix:	SO - Solid		Percent Solids:	93.4
Method:	SW846 8270C SW846 3550B			
Project:	CTO 229			

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004099.D	1	03/02/01	ME	03/01/01	OP2805	SW235
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	890	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	890	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	890	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	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	890	ug/kg	
87-86-5	Pentachlorophenol	ND	890	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-V2S-S03		Date Sampled:	02/23/01
Lab Sample ID:	F9066-2		Date Received:	02/26/01
Matrix:	SO - Solid		Percent Solids:	93.4
Method:	SW846 8270C SW846 3550B			
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	710	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	70%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	73%		36-135%
321-60-8	2-Fluorobiphenyl	74%		44-135%
1718-51-0	Terphenyl-d14	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-V2S-S03	Date Sampled:	02/23/01
Lab Sample ID:	F9066-2	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	93.4
Method:	SW846 8015 M SW846 3550B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01470.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		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-V2S-S03	Date Sampled:	02/23/01
Lab Sample ID:	F9066-2	Date Received:	02/26/01
Matrix:	SO - Solid	Percent Solids:	93.4
Project:	CTO 229		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	4.1 B	10.6	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	02/21/01
Lab Sample ID:	F9066-3	Date Received:	02/26/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002797.D	1	02/26/01	JG	n/a	n/a	VC129
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	Date Sampled:	02/21/01
Lab Sample ID:	F9066-3	Date Received:	02/26/01
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	CTO 229		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		69-128%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	109%		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

SECTION 2

**CASE NARRATIVE
GC/MS Volatile Analysis**

Laboratory Reference No. F9066

Client/Project: AMEC/1-1019-0229

I. RECEIPT

One bottle for solids was received broken for sample RH-BR-V2S-SO3. This jar was not salvageable, however we did receive another bottle for this sample which enabled us to perform the analysis requested.

All samples were received via DHL Worldwide Express on 02/26/2001.

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 except the trip blank that was performed using
SW-846 5030B

Analysis: SW-846 8260B

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Spikes (Matrix Spike and Matrix Spike Duplicate): All acceptance criteria were met, except for the MS and/ or MSD recovery, which was, reported high for 1,1-Dichloroethylene and Methylene chloride.

C. 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, 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: _____

Linda R. Williams
Federal Accounts Project Manager

Date: _____

3/19/01

**CASE NARRATIVE
GC/MS Semivolatile Analysis**

Laboratory Reference No. F9066

Client/Project: AMEC/1-1019-0229

I. RECEIPT

One bottle for solids was received broken for sample RH-BR-V2S-SO3. This jar was not salvageable, however we did receive another bottle for this sample which enabled us to perform the analysis requested.

All samples were received via DHL Worldwide Express on 02/26/2001.

II. HOLDING TIMES

C. Sample Preparation: All holding times were met.

D. 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

D. Calibration: All acceptance criteria were met.

E. Spikes (Matrix Spike and LCS): All acceptance criteria were met, except for the MS and/ or MSD recovery, which was, reported outside of the acceptance criteria for several compounds.

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, 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: _____

Linda R. Williams

Federal Accounts Project Manager

Date: _____

3/9/01

CASE NARRATIVE
GC Diesel Range Organics Analysis

Laboratory Reference No. F9066

Client/Project: AMEC/1-1019-0229

I. RECEIPT

One bottle for solids was received broken for sample RH-BR-V2S-SO3. This jar was not salvageable, however we did receive another bottle for this sample which enabled us to perform the analysis requested.

All samples were received via DHL Worldwide Express on 02/26/2001.

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. 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: _____

Linda R. Williams

Federal Accounts Project Manager

Date: _____

3/19/01

CASE NARRATIVE
Inorganic Analysis

Laboratory Reference No. F9066

Client/Project: AMEC/1-1019-0229

I. RECEIPT

One bottle for solids was received broken for sample RH-BR-V2S-SO3. This jar was not salvageable, however we did receive another bottle for this sample which enabled us to perform the analysis requested.

All samples were received via DHL Worldwide Express on 02/26/2001.

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.

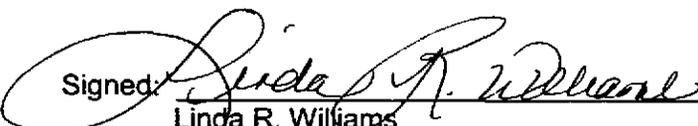
D. Duplicates: All acceptance criteria were met.

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. 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:


Linda R. Williams

Federal Accounts Project Manager

Date:

3/19/01

Internal Sample Tracking Chronicle

AMEC Environmental

Job No: F9066

CTO 229

Project No: 1-1019-0229

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
F9066-1 Collected: 21-FEB-01 09:55 By: AW Received: 26-FEB-01 By: SMG RH-BR-V2S-S02						
F9066-1	SW846 8260B	01-MAR-01 15:14	NAF			V8260TCL
F9066-1	SW846 8270C	02-MAR-01 17:51	ME	01-MAR-01 NJ		AB8270TCL
F9066-1	SW846 8015 M	02-MAR-01 18:50	SKW	01-MAR-01 NJ		B8015DROM1
F9066-1	EPA 160.3 M	05-MAR-01	AL			%SOL
F9066-1	SW846 6010B	08-MAR-01 13:03	JK	06-MAR-01 LIR		PB
F9066-2 Collected: 23-FEB-01 10:40 By: AW Received: 26-FEB-01 By: SMG RH-BR-V2S-S03						
F9066-2	SW846 8260B	01-MAR-01 15:54	NAF			V8260TCL
F9066-2	SW846 8270C	02-MAR-01 18:22	ME	01-MAR-01 NJ		AB8270TCL
F9066-2	SW846 8015 M	02-MAR-01 19:14	SKW	01-MAR-01 NJ		B8015DROM1
F9066-2	EPA 160.3 M	05-MAR-01	AL			%SOL
F9066-2	SW846 6010B	08-MAR-01 13:08	JK	06-MAR-01 LIR		PB
F9066-3 Collected: 21-FEB-01 00:00 By: AW Received: 26-FEB-01 By: SMG TRIP BLANK						
F9066-3	SW846 8260B	26-FEB-01 21:00	JG			V8260TCL

ACCUTEST LABORATORIES SOUTHEAST
SAMPLE RECEIPT CONFIRMATION

Accutest Job Number: F9066
Client/Project: Oyden/amec - Red Hill Bulk Fuel Storage
Date/Time Received: 2/26/01 1145
Method of Delivery: Fed Ex Greyhound UPS Pickup Delivery Other DHL
Air Bill Number: 8103264455
Cooler Temperatures: 3.4°C

Custody Seals Intact?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Chain Of Custody Provided?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Chain Of Custody Match Bottles?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Sample Labels Present?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Are All Bottles Unbroken?	<input type="radio"/> YES	<input checked="" type="radio"/> NO *
Proper Preservative?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Correct Containers Used?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Sufficient Sample Volume?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Number of Encores:	<u>0</u>	

COMMENTS:

* one jar was received broken for F9066-2,
sample was NOT salvagable
- we received enough sample - no problem
Hw 2-26-01

Signature: Mike Ferrell Date: _____

SECTION 3

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SECTION 4



Sample Summary

AMEC Environmental

Job No: F9066

CTO 229

Project No: 1-1019-0229

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F9066-1	02/21/01	09:55 AW	02/26/01	SO	Solid	RH-BR-V2S-S02
F9066-2	02/23/01	10:40 AW	02/26/01	SO	Solid	RH-BR-V2S-S03
F9066-3	02/21/01	00:00 AW	02/26/01	AQ	Trip Blank Soil	TRIP BLANK



ACCUTEST.

Client Sample ID: RH-BR-V2S-S02	Date Sampled: 02/21/01
Lab Sample ID: F9066-1	Date Received: 02/26/01
Matrix: SO - Solid	Percent Solids: 89.4
Method: SW846 8260B	
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0015289.D	1	03/01/01	NAF	n/a	n/a	VG460
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	55	ug/kg	
71-43-2	Benzene	ND	5.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	ug/kg	
75-25-2	Bromoform	ND	5.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	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	5.5	ug/kg	
74-87-3	Methyl chloride	ND	5.5	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	5.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	ug/kg	
108-88-3	Toluene	ND	5.5	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	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

Client Sample ID: RH-BR-V2S-S02
Lab Sample ID: F9066-1
Matrix: SO - Solid
Method: SW846 8260B
Project: CTO 229

Date Sampled: 02/21/01
Date Received: 02/26/01
Percent Solids: 89.4

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	94%		73-128%
460-00-4	4-Bromofluorobenzene	111%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		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



Client Sample ID: RH-BR-V2S-S02

Lab Sample ID: F9066-1

Date Sampled: 02/21/01

Matrix: SO - Solid

Date Received: 02/26/01

Method: SW846 8270C SW846 3550B

Percent Solids: 89.4

Project: CTO 229

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	W004098.D	1	03/02/01	ME	03/01/01	OP2805	SW235

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	930	ug/kg	
95-57-8	2-Chlorophenol	ND	370	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	370	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	370	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	930	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	930	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	ug/kg	
95-48-7	2-Methylphenol	ND	370	ug/kg	
	3&4-Methylphenol	ND	370	ug/kg	
88-75-5	2-Nitrophenol	ND	370	ug/kg	
100-02-7	4-Nitrophenol	ND	930	ug/kg	
87-86-5	Pentachlorophenol	ND	930	ug/kg	
108-95-2	Phenol	ND	370	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	370	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	370	ug/kg	
83-32-9	Acenaphthene	ND	370	ug/kg	
208-96-8	Acenaphthylene	ND	370	ug/kg	
120-12-7	Anthracene	ND	370	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	ug/kg	
50-32-8	Benzo(a)pyrene	ND	370	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	370	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	370	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	370	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	370	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	ug/kg	
100-51-6	Benzyl Alcohol	ND	370	ug/kg	
91-58-7	2-Chloronaphthalene	ND	370	ug/kg	
106-47-8	4-Chloroaniline	ND	370	ug/kg	
86-74-8	Carbazole	ND	370	ug/kg	
218-01-9	Chrysene	ND	370	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	370	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	370	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	370	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	370	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	370	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	370	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-V2S-S02	Date Sampled: 02/21/01
Lab Sample ID: F9066-1	Date Received: 02/26/01
Matrix: SO - Solid	Percent Solids: 89.4
Method: SW846 8270C SW846 3550B	
Project: CTO 229	

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	370	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	370	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	370	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	740	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	370	ug/kg	
132-64-9	Dibenzofuran	ND	370	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	ug/kg	
84-66-2	Diethyl phthalate	ND	370	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	ug/kg	
206-44-0	Fluoranthene	ND	370	ug/kg	
86-73-7	Fluorene	ND	370	ug/kg	
118-74-1	Hexachlorobenzene	ND	370	ug/kg	
87-68-3	Hexachlorobutadiene	ND	370	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	ug/kg	
67-72-1	Hexachloroethane	ND	370	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	370	ug/kg	
78-59-1	Isophorone	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
88-74-4	2-Nitroaniline	ND	370	ug/kg	
99-09-2	3-Nitroaniline	ND	370	ug/kg	
100-01-6	4-Nitroaniline	ND	370	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
98-95-3	Nitrobenzene	ND	370	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	370	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	370	ug/kg	
85-01-8	Phenanthrene	ND	370	ug/kg	
129-00-0	Pyrene	ND	370	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		36-129%
4165-62-2	Phenol-d5	65%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	64%		36-135%
321-60-8	2-Fluorobiphenyl	70%		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-V2S-S02	Date Sampled: 02/21/01
Lab Sample ID: F9066-1	Date Received: 02/26/01
Matrix: SO - Solid	Percent Solids: 89.4
Method: SW846 8015 M SW846 3550B	
Project: CTO 229	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01469.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	9.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		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-V2S-S02

Lab Sample ID: F9066-1

Matrix: SO - Solid

Project: CTO 229

Date Sampled: 02/21/01

Date Received: 02/26/01

Percent Solids: 89.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	0.13 U	11.1	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Client Sample ID: RH-BR-V2S-S03	
Lab Sample ID: F9066-2	Date Sampled: 02/23/01
Matrix: SO - Solid	Date Received: 02/26/01
Method: SW846 8260B	Percent Solids: 93.4
Project: CTO 229	

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	G0015290.D	1	03/01/01	NAF	n/a	n/a	VG460

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	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

Client Sample ID: RH-BR-V2S-S03
Lab Sample ID: F9066-2
Matrix: SO - Solid
Method: SW846 8260B
Project: CTO 229

Date Sampled: 02/23/01
Date Received: 02/26/01
Percent Solids: 93.4

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	97%		73-128%
460-00-4	4-Bromofluorobenzene	112%		53-158%
17060-07-0	1,2-Dichloroethane-D4	110%		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-V2S-S03 Lab Sample ID: F9066-2 Matrix: SO - Solid Method: SW846 8270C SW846 3550B Project: CTO 229	Date Sampled: 02/23/01 Date Received: 02/26/01 Percent Solids: 93.4
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W004099.D	1	03/02/01	ME	03/01/01	OP2805	SW235
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	890	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	890	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	890	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	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	890	ug/kg	
87-86-5	Pentachlorophenol	ND	890	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

Client Sample ID: RH-BR-V2S-S03	
Lab Sample ID: F9066-2	Date Sampled: 02/23/01
Matrix: SO - Solid	Date Received: 02/26/01
Method: SW846 8270C SW846 3550B	Percent Solids: 93.4
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	710	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	70%		36-129%
4165-62-2	Phenol-d5	74%		38-135%
118-79-6	2,4,6-Tribromophenol	76%		37-144%
4165-60-0	Nitrobenzene-d5	73%		36-135%
321-60-8	2-Fluorobiphenyl	74%		44-135%
1718-51-0	Terphenyl-d14	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-V2S-S03	
Lab Sample ID: F9066-2	Date Sampled: 02/23/01
Matrix: SO - Solid	Date Received: 02/26/01
Method: SW846 8015 M SW846 3550B	Percent Solids: 93.4
Project: CTO 229	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF01470.D	1	03/02/01	SKW	03/01/01	OP2806	GZF65
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	8.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		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-V2S-S03	Date Sampled: 02/23/01
Lab Sample ID: F9066-2	Date Received: 02/26/01
Matrix: SO - Solid	Percent Solids: 93.4
Project: CTO 229	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Lead	4.1 B	10.6	mg/kg	1	03/06/01	03/08/01 JK	SW846 6010B

RL = Reporting Limit

Client Sample ID: TRIP BLANK

Lab Sample ID: F9066-3

Date Sampled: 02/21/01

Matrix: AQ - Trip Blank Soil

Date Received: 02/26/01

Method: SW846 8260B

Percent Solids: n/a

Project: CTO 229

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0002797.D	1	02/26/01	JG	n/a	n/a	VC129
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



Client Sample ID: TRIP BLANK	Date Sampled: 02/21/01
Lab Sample ID: F9066-3	Date Received: 02/26/01
Matrix: AQ - Trip Blank Soil	Percent Solids: n/a
Method: SW846 8260B	
Project: CTO 229	

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		69-128%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	109%		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

SECTION 5

